ORDER NO. MD0406275C1

A12 (USA), B13 (CANADA)

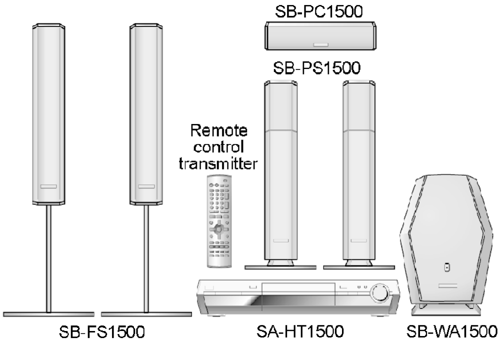
# Service Manual

## Recordable DVD Home Theater System

## SA-HT1500P / SA-HT1500PC

Colour

(S)... Silver Type


SB-PC1500
SB-PS1500
Remote control transmitter
SB-FS1500
SA-HT1500
SB-WA1500

**Notes: The part of DVD Drive (VXY1814) is listed separately.**
**Please refer ORDER No. RAM0402001C0**

When replacing with Digital P.C.B. or HDD, "UNFORMAT" indication is displayed and HDD must be formatted.
After that, programme in the HDD will be lost.
In detail, please refer to each content in this service manual.

## SPECIFICATIONS

### Specification

### ■ Amplifier Section

| | |
|---|---|
| RMS total power output | 800 W |
| 1 kHz, 10% total harmonic distortion | |
| Front: | 70 W per channel (4 Ω) |
| Center: | 260 W (4 Ω) |
| Surround: | 70 W per channel (4 Ω) |
| 100 Hz, 10% total harmonic distortion | |
| Subwoofer: | 260 W (4 Ω) |
| FTC total power output | 470 W |
| 120 Hz-20 kHz, 1.0% total harmonic distortion | |
| Front: | 45 W per channel (4 Ω) |
| Center: | 140 W (4 Ω) |
| Surround: | 45 W per channel (4 Ω) |
| 45 Hz-120 HZ, 1.0% total harmonic distortion | |
| Subwoofer: | 150 W (4 Ω) |
| Input sensitivity/Input impedance | |
| L1/L2/L3: | 350 mV, 47 kΩ |
| AUX: | 350 mV, 18 kΩ |
| Digital input | Optical input (Dolby Digital, Linear PCM) |

### ■ TV Tuner Section

| | |
|---|---|
| Tuner system: | NTSC-M |
| Antenna reception input: | TV Channel: 2 ch-69 ch, 75 Ω<br>CATV Channel: 1 ch-125 ch, 75 Ω |
| RF Converter Output: | Not provided |

### ■ FM Tuner Section

| | |
|---|---|
| Frequency range | 87.9 - 107.9 MHz (200-kHz step)<br>87.5 - 108.0 MHz (100-kHz step) |
| Antenna terminals | 75 Ω (unbalanced) |

### ■ AM Tuner Section

| | |
|---|---|
| Frequency range | 520 - 1710 kHz (10-kHz step) |

### ■ Recorder Section

| | |
|---|---|
| Recording system: | DVD Video Recording format (DVD-RAM)<br>DVD Video format (DVD-R) |
| LASER Specification | |
| Class I LASER Product | |
| Wavelength: | 795 nm for CD/VCD, 658 nm for DVD |
| Laser power: | No hazardous radiation is emitted with the safety protection |
| Recordable discs: | |
| DVD-RAM: | 12 cm (5”) 4.7 GB, 12 cm (5”) 9.4 GB, 8 cm (3”) 2.8 GB<br>12 cm (5”) 4.7 GB (Ver. 2.1/3x-SPEED DVD-RAM Revision 1.0) |
| DVD-R: | 12 cm (5”) 4.7 GB, 8 cm (3”) 1.4 GB (for General Ver. 2.0) |

12 cm (5”) 4.7 GB (for General Ver. 2.0/4x-SPEED DVD-R Revision 1.0)

Recording time:

Maximum 8 hours (with 4.7 GB discs) :
XP: Approx. 1 hour
SP: Approx. 2 hour
LP: Approx. 4 hour
EP: Approx. 6 hour / 8 hours

Maximum 142 hours (with built-in 80 GB HDD) :
XP: 17 hour
SP: 34 hour
LP: 68 hour
EP: 106 hour / 142 hours

Playable discs:
DVD-RAM: 12 cm (5”) 4.7 GB, 12 cm (5”) 9.4 GB, 8 cm (3”) 2.8 GB
12 cm (5”) 4.7 GB (Ver. 2.1/3x-SPEED DVD-RAM Revision 1.0)
DVD-R: 12 cm (5”) 4.7 GB, 8 cm (3”) 1.4 GB (for General Ver. 2.0)
12 cm (5”) 4.7 GB (for General Ver. 2.0/4x-SPEED DVD-R Revision 1.0)
DVD-Video, DVD-Audio, Video CD, CD-Audio (CD-DA)
CD-R/CD-RW (MP3, CD-DA, Video CD formatted discs)

Video system
TV system: NTSC system, 525 lines, 60 fields
Recording system: MPEG2 (Hybrid VBR)
Input terminal: Line (pin jack) x3
S connector (Y, C) x3
Output terminal: Line (composite video) x2
S connector (Y, C) x2
Component video output (480P / 480i)

Audio system
Recording system: Dolby Digital (XP/SP/LP/EP)
Linear PCM (XP only)
Number of channels: Recording: 2 channels
Playback: 5.1 channels
(FL, FR, Center, SL, SR, Subwoofer)

## ■ General

Power supply: AC 120 V, 60 Hz
Power consumption: 36 W
Dimensions (W x H x D): 448 mm x 81.5 mm x 372 mm / (17 5/8” x 3 3/16” x 14 5/8”)
Mass: Approx. 5.8 kg (12.8 lbs)
(Dimensions and Mass do not include the speakers.)
Operating temperature range: 5 °C - 40 °C (41 °F - 104 °F)
Operating humidity range: 10 % - 80 % RH (no condensation)

| | |
|---|---|
| **Power consumption in standby mode:** | **Approx. 14 W** |

**(When FL display is off except timer recording)**

**Notes :**

**1. Specifications are subject to change without notices. Mass and dimensions are approximate.**

| | |
|---|---|
| ■ **System : SC-HT1500P-S** | **Music Center: SA-HT1500P-S**<br>**Satellite Speaker: SB-HT1500P-S**<br>**Active Subwoofer: SB-WA1500PP-S** |
| ■ **System : SC-HT1500PC-S** | **Music Center: SA-HT1500PC-S**<br>**Satellite Speaker: SB-HT1500P-S**<br>**Active Subwoofer: SB-WA1500PP-S** |

**SB-HT1500P-S Consists of :**
**SB-FS1500P-S x 2, SB-PS1500P-S x 2 and SB-PC1500P-S x 1**

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**⚠ WARNING**

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

# 1. Safety Precautions

## 1.1. GENERAL GUIDELINES

1. **When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.**
2. **After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.**
3. **After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.**

**(This “Safety Precaution” is applied only in U.S.A.)**

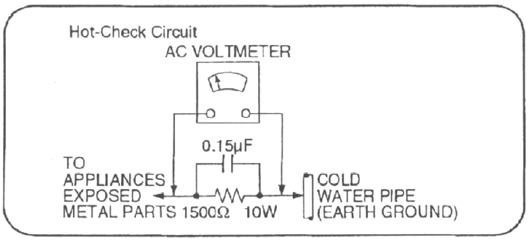
1. **Before servicing, unplug the power cord to prevent an electric shock.**

2. When replacing parts, use only manufacturer's recommended components for safety.
3. Check the condition of the power cord. Replace if wear or damage is evident.
4. After servicing, be sure to restore the lead dress, insulation barriers, insulation papers, shields, etc.
5. Before returning the serviced equipment to the customer, be sure to make the following insulation resistance test to prevent the customer from being exposed to a shock hazard.

### 1.1.1. LEAKAGE CURRENT COLD CHECK

1. Unplug the AC cord and connect a jumper between the two prongs on the plug.
2. Measure the resistance value, with an ohmmeter, between the jumpered AC plug and each exposed metallic cabinet part on the equipment such as screwheads, connectors, control shafts, etc. When the exposed metallic part has a return path to the chassis,the reading should be between 1M Ω and 5.2 Ω . / When the exposed metal does not have a return path to the chassis, the reading must be ∞ .

**Fig. 1**


Hot-Check Circuit
AC VOLTMETER
0.15μF
TO APPLIANCES EXPOSED METAL PARTS
1500Ω
10W
COLD WATER PIPE (EARTH GROUND)

### 1.1.2. LEAKAGE CURRENT HOT CHECK (See Figure 1.)

1. Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.
2. Connect a 1.5k Ω , 10 watts resistor, in parallel with a 0.15 μ F capacitors, between each exposed metallic part on the set and a good earth ground such as a water pipe, as shown in Figure 1.
3. Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to measure the potential across the resistor.

4. Check each exposed metallic part, and measure the voltage at each point.
5. Reverse the AC plug in the AC outlet and repeat each of the above measurements.
6. The potential at any point should not exceed 0.75 volts RMS. A leakage current tester (Simpson Model 229 or equivalent) may be used to make the hot checks, leakage current must not exceed 1/2 milliamp. In case a measurement is outsideof the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and re-checked before it is returned to the customer.

### 1.1.3. Caution for fuse replacement

**(For English)**
**CAUTION:**

Replace with the same type fuse:
(Manufacturer: SOC or Hollyland, F1: K5D162AQ0004 Type: ET or 50T, 1.6A, 125V)

**(For Canadian French)**
**ATTENTION:**

Utiliser un fusible de rechange de même type:
(Fabricant: SOC ou Hollyland, F1: K5D162AQ0004 Type: ET ou 50T, 1.6A, 125V)

# 2. Before Repair and Adjustment

**Disconnect AC power, discharge Power Supply Capacitors C1120, C1121, C1122, C1123, C1124, C1126, & C1127 through a 10 Ω , 5W resistor to ground.**
**DO NOT SHORT-CIRCUIT DIRECTLY (with a screwdriver blade, for instance), as this may destroy solid state devices.**
**After repairs are completed, restore power gradually using a variac, to avoid overcurrent.**

- Current consumption at AC 120V, 60 Hz in NO SIGNAL mode should be ~300 mA.

# 3. Protection Circuitry

**The protection circuitry may have operated if either of the following conditions are noticed:**

- No sound is heard when the power is turned on.
- Sound stops during a performance.

**The function of this circuitry is to prevent circuitry damage if, for example, the positive and negative speaker connection wires are "shorted", or if speaker systems with an impedance less than the indicated rated impedance of the amplifier areused.**
**If this occurs, follow the procedure outlines below:**

1. Turn off the power.

**2. Determine the cause of the problem and correct it.**

**3. Turn on the power once again after one minute.**

**Note:**
**When the protection circuitry functions, the unit will not operate unless the power is first turned off and then on again.**

# 4. Prevention of Electro Static Discharge (ESD) to Electrostatically Sensitive (ES) Devices

**Some semiconductor (solid state) devices can be damaged easily by electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistorsand semiconductor “chip” components. The following techniques should be used to help reduce the incidence of component damage caused by electro static discharge (ESD).**

1. **Immediately before handling any semiconductor component or semiconductor-equiped assembly, drain off any ESD on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging ESD wrist strap, whichshould be removed for potential shock reasons prior to applying power to the unit under test.**
2. **After removing an electrical assembly equiped with ES devices, place the assembly on a conductive surface such as aluminium foil, to prevent electrostatic charge build up or exposure of the assembly.**
3. **Use only a grounded-tip soldering iron to solder or unsolder ES devices.**
4. **Use only an anti-static solder remover device. Some solder removal devices not classified as “anti-static (ESD protected)” can generate electrical charge to damage ES devices.**
5. **Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.**
6. **Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminium foil orcomparable conductive material).**
7. **Immediately before removing the protective material from the**

**leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.**

**Caution**

**Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.**

8. **Minimize body motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity (ESD) sufficient todamage an ES device).**

**IMPORTANT SAFETY NOTICE**

There are special components used in this equipment which are imporant for safety.
These parts are marked by ⚠ in the schematic diagrams, Exploded Views and replacement parts list. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire, or other hazards. Do not modify the original design without permission of manufacturer.

# 5. Handling the Lead-free Solder

## 5.1. About lead free solder (PbF)

**Distinction of PbF P.C.B.:**

**P.C.B.s (manufactured) using lead free solder will have a PbF stamp on the P.C.B.**

**Caution:**

- **Pb free solder has a higher melting point than standard solder; Typically the melting point is 50 - 70°F (30 - 40°C) higher. Please use a high temperature soldering iron. In case of soldering iron with temperature control,please set it to 700 ± 20°F (370 ± 10°C).**
- **Pb free solder will tend to splash when heated too high (about 1100°F/600°C).**
- **When soldering or unsoldering, please completely remove all of the solder on the pins or solder area, and be sure to heat the soldering points with the Pb free solder until it melts enough.**

# 6. Precaution of Laser Diode

**CAUTION:**

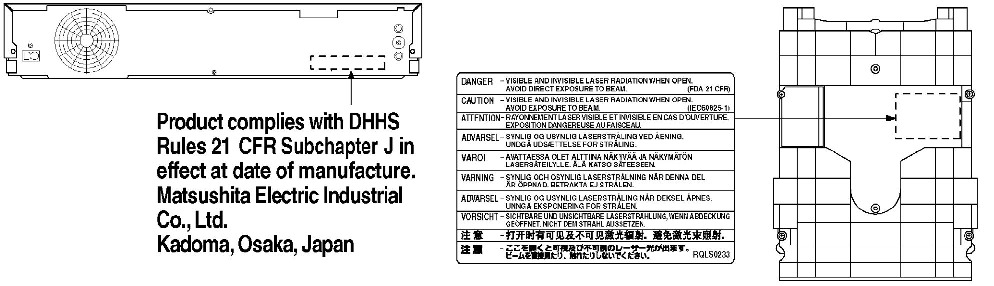
This product utilizes a laser diode with the unit turned “on”, invisible laser radiation is emitted from the pickup lens.
Wave length: 795 nm/658 nm
Maximum output radiation power from pickup: 100 μ W/VDE
Laser radiation from the pickup lens is safety level,but be sure the followings:

1. Do not disassemble the optical pickup unit, since radiation from exposed laser diode is dangerous.
2. Do not adjust the variable resistor on the pickup unit. It was already adjusted.
3. Do not look at the focus lens using optical instruments.
4. Recommend not to look at pickup lens for a long time.

**ACHTUNG:**

Dieses Produkt enthält eine Laserdiode.
Im eingeschalteten Zustand wird unsichtbare Leserstrahlung von der Laserinheit adgestrahit.
Wellenlänge: 795 nm/658 nm
Maximale Strahlungsleistung der Lasereinheit: 100 μ W/VDE
Die Strahlungan der Lasereinheit ungefährlich, wenn folgende Punkte beachtet werden:

1. Die Lasereinheit nicht zerlegen, da die Strahlung an der freigelegten Laserdiode gefährlich ist.
2. Den werkseitig justierten Einstellregler der Lasereinhit nicht verstellen.
3. Nicht mit optischen Instrumenten in die Fokussierlines blicken.
4. Nicht über längere Zeit in die Fokussierlines blicken.



**Product complies with DHHS Rules 21 CFR Subchapter J in effect at date of manufacture.
Matsushita Electric Industrial Co., Ltd.
Kadoma, Osaka, Japan**

DANGER - VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. AVOID DIRECT EXPOSURE TO BEAM. (FDA 21 CFR)
CAUTION - VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. AVOID EXPOSURE TO BEAM. (IEC60825-1)
ATTENTION - RAYONNEMENT LASER VISIBLE ET INVISIBLE EN CAS D'OUVERTURE. EXPOSITION DANGEREUSE AU FAISCEAU.
ADVARSEL - SYNLIG OG USYNLIG LASERSTRÅLING VED ÅBNING. UNDGÅ UDSÆTTELSE FOR STRÅLING.
VARO! - AVATTAESSA OLET ALTTIINA NÄKYVÄÄ JA NÄKYMÄTÖN LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.
VARNING - SYNLIG OCH OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. BETRAKTA EJ STRÅLEN.
ADVARSEL - SYNLIG OG USYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNES. UNNGÅ EKSPONERING FOR STRÅLEN.
VORSICHT - SICHTBARE UND UNSICHTBARE LASERSTRAHLUNG, WENN ABDECKUNG GEÖFFNET. NICHT DEM STRAHL AUSSETZEN.
注 意 - 打开时有可见及不可见激光辐射。避免激光束照射。
注 意 - ここを開くと可視及び不可視のレーザー光が出ます。ビームを直接見たり、触れたりしないでください。 RQLS0233

CAUTION!
THIS PRODUCT UTILIZES A LASER.
USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

# 7. Handling Precaution for Traverse Deck (Optical Pickup)

**The laser diode in the traverse unit (optical pickup) may break down due to static electricity of clothes or human body.**
**Use due caution to electrostatic breakdown when servicing and handling the laser diode.**

## 7.1. Handling Precautions for Traverse Unit (Optical Pickup)

1. **Do not give a considerable shock to the traverse unit (optical pickup) as it has an extremely high-precise structure.**
2. **When replacing the optical pickup, install the flexible cable and cut its short land with a nipper. See the optical pickup replacement procedure in this Technical Guide. Before replacing the traverse unit, remove the short pin for preventingstaticelectricity and install a new unit. Connect the connector as short times as possible.**
3. **The flexible cable may be cut off if an excessive force is applied to it. Use caution when handling the cable.**
4. **The half-fixed resistor for laser power adjustment cannot be adjusted. Do not turn the resistor.**

## 7.2. Grounding for electrostatic breakdown prevention

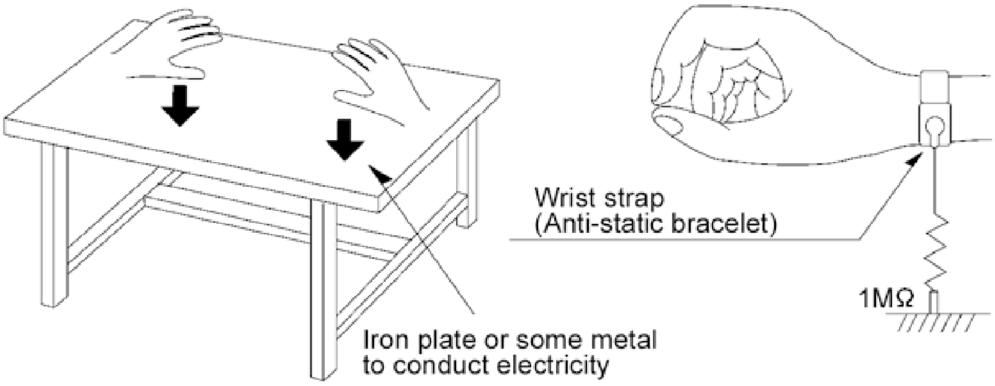
**Some devices such as the DVD player use the optical pickup (laser diode) and the optical pickup will be damaged by static electricity in the working environment. Proceed servicing works under the working environment where grounding works is completed.**

### 7.2.1. Workable grounding

1. **Put a conductive materials (sheet) or iron sheet on the area where the optical pickup is placed, and ground the sheet.**

### 7.2.2. Human body grounding

1. **Use the anti-static wrist strap to discharge the static electricity from your body.**



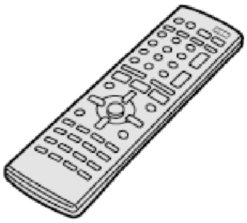
### 7.2.3. Handling of optical pickup

1. **To keep the good quality of the optical pickup maintenance parts during transportation and before installation,. the both ends of the laser diode are short-circuited. After replacing the parts with new ones, remove the short circuit accordingto the correct procedure. (See this Technical Guide.)**
2. **Do not use a tester to check the laser diode for the optical pickup. Failure to do so will damage the laser diode due to the power supply in the tester.**

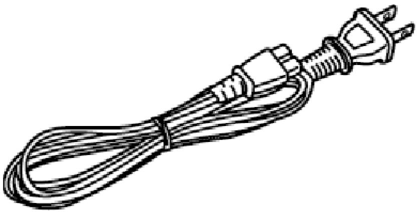
# 8. Accessories

**Note : Refer to Packing Materials & Accessories for part number.**

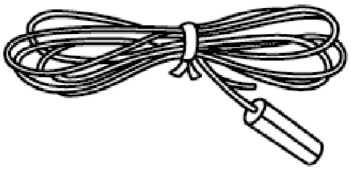
**Remote Control**



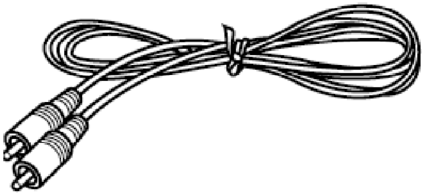
**AC Power Supply Cords**



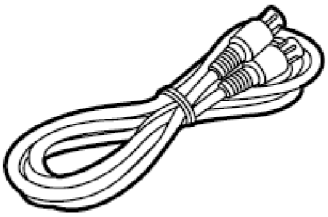
**FM Indoor Antenna**



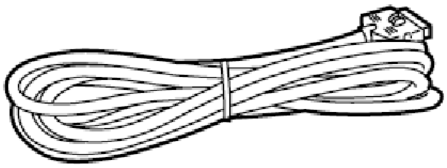
**Video Cable**



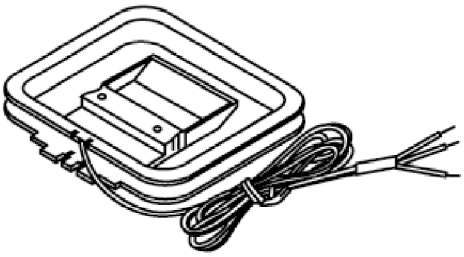
**RF Cable**



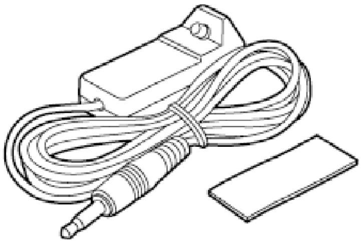
**System Cable**



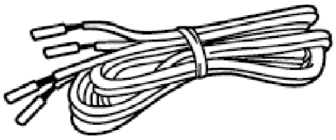
**AM Loop Antenna**



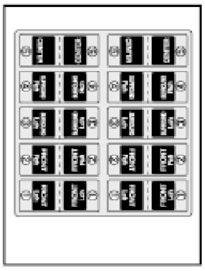
Wired RC



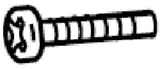
Speaker Cables



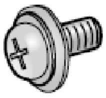
Sheet of Speaker Cable Stickers



Speaker Screw



Speaker Screw



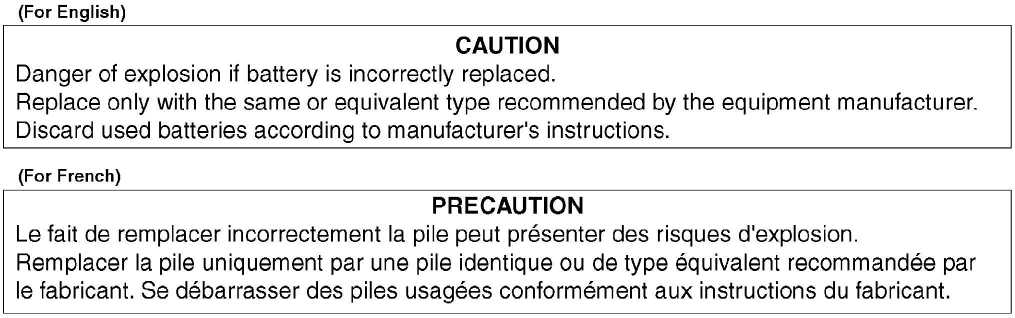
# 9. How to replace the Lithium Battery

**REPLACEMENT PROCEDURE**

1. **Remove the Top case and DVD-RAM drive unit with Main P.C.B. by referring the Disassembling Procedure.**
2. **Unsolder the Lithium Batteries: B7501 and then replace it into**

**new one.**
**( As shown in 26.2. The Main P.C.B. )**

**NOTE:**
**The lithium battery is a critical component. ( Type No.: CR2354-1GUF Manufactured by Panasonic. )**
**It must never be subjected to excessive heat or discharge.**
**It must therefore only be fitted in equipment designed specifically for its use.**
**Replacement batteries must be of the same type and manufacture.**
**They must be fitted in the same manner and location as the original battery, with the correct polarity contacts observed.**
**Do not attempt to re-charge the old battery or re-use it for any other purpose.**
**It should be disposed of in waste products destined for burial rather than incineration.**



(For English)

**CAUTION**
Danger of explosion if battery is incorrectly replaced.
Replace only with the same or equivalent type recommended by the equipment manufacturer.
Discard used batteries according to manufacturer's instructions.

(For French)

**PRECAUTION**
Le fait de remplacer incorrectement la pile peut présenter des risques d'explosion.
Remplacer la pile uniquement par une pile identique ou de type équivalent recommandée par le fabricant. Se débarrasser des piles usagées conformément aux instructions du fabricant.

# 10. Operation Procedures

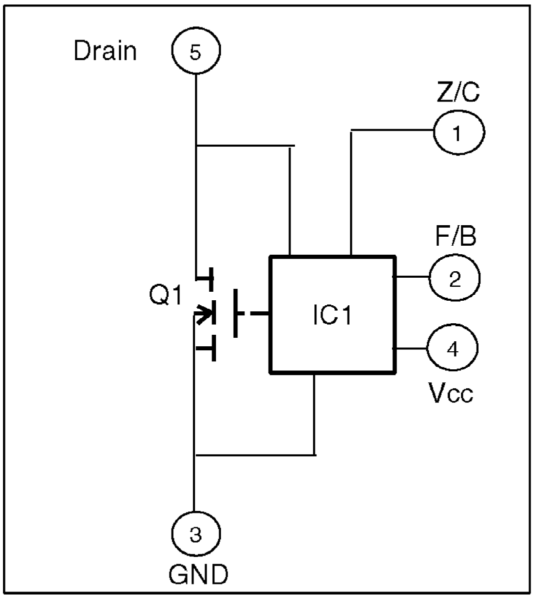
# 11. Disc information

# 12. New Features

## 12.1. Function of Power Circuit (IC1150)

**1. General**
**We adopted IC module as the Switching Power Circuit for lower power consumption.**
**IC1150 is constructed with Switching materials and Control IC, and is partial resonance module.**
**We realized Switching Power with high efficiency, low noise and low power consumption.**

**2. Equivalence Circuit to IC1150**

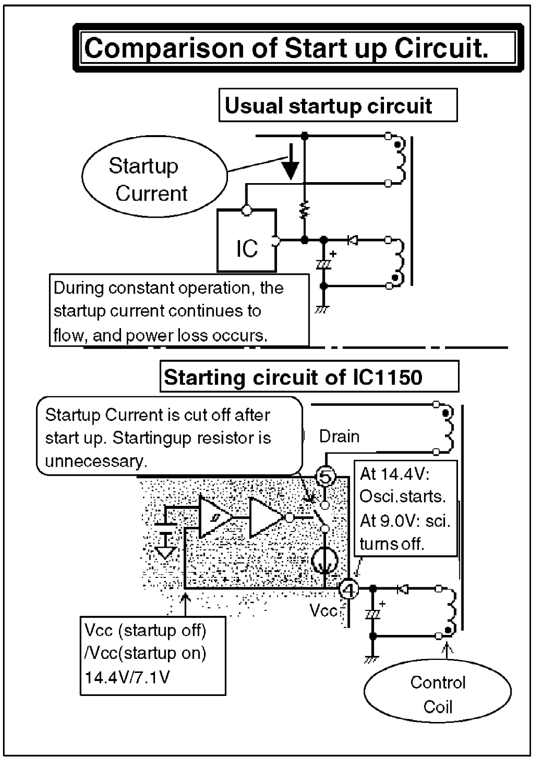


| Pin No. | Symbol | Description |
|---|---|---|
| 1 | Z/C | Trigger input terminal.<br>Zero detection voltage: 0.25V<br>It becomes less than 3V, the mode turns to standby. |
| 2 | F/B | Bias current feedback input terminal.<br>● Switching ON time (min.) ~ (max.)<br>1.5V ~ 4.5V / 0 µ sec. ~ 25 µ sec.<br>● In standby mode<br>Oscillationstops:less than 0.8V<br>Oscillation starts: over 1.8V |
| 3 | GND | GND terminal |
| 4 | Vcc | Power terminal of IC.<br>Oscillation starting voltage: Vcc = and over 14.5V<br>Oscillation stop voltage: Vcc = and less than 9.6V<br>Over voltage latching voltage: Vcc = 20V |
| 5 | Drain | Drain terminal for Main switching material. |

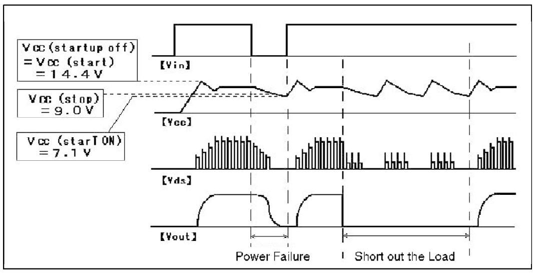
**3. Startup Circuit**

**When power is turned on, input voltage of the Switching Transformer is supplied to IC1150 as the startup power.**

**After IC1150 has started, the startup current is cut off.**
**The current of Startup Circuit is supplied as constant current source in IC1150 and as charge current for the capacitor connected between Vcc terminal and GND out side of IC1150 until Vcc reaches 14.4V.**
**When Vcc reaches 14.4V, the Startup Circuit is cut off, then oscillation starts.**
**After then, power of IC1150 is supplied from control coil.**
**In case, the power failure or short out of the load, when Vcc becomes 9.0V; the oscillation stops, furthermore Vcc becomes 7.1V the Startup Circuit starts up and Vcc starts to rise.**


Comparison of Start up Circuit.
Usual startup circuit
Startup Current
IC
During constant operation, the startup current continues to flow, and power loss occurs.
Starting circuit of IC1150
Startup Current is cut off after start up. Startingup resistor is unnecessary.
Drain
5
At 14.4V: Osci.starts. At 9.0V: sci. turns off.
4
Vcc
Vcc (startup off) /Vcc(startup on) 14.4V/7.1V
Control Coil

**Startup Circuit Timing Chart**



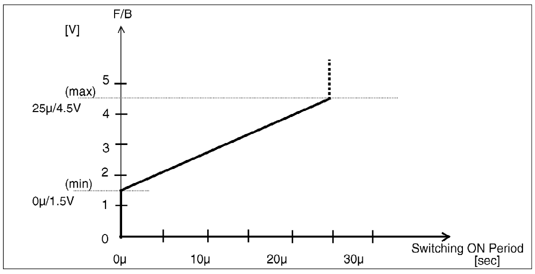
### Function of Z/C Terminal

**When voltage of Z/C reaches 0.25V, Gate signal is output and Drain current starts to flow.**

### Function of F/B terminal

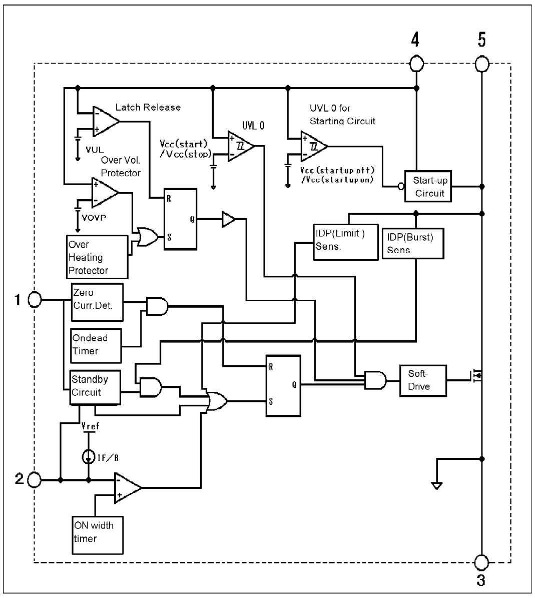
**F/B signal decides Switching ON width in low voltage controlling.**

**The Switching ON width responds to change of F/B Voltage.**



**Standby Function**
**When Z/C Voltage becomes less than 3V, the unit changes to Standby mode.**

**IC1150 Block Diagram**


4
5
Latch Release
VUL
Over Vol.
Protector
VOVP
Vcc(start)
/Vcc(stop)
UVL 0
UVL 0 for
Starting Circuit
Vcc(startup off)
/Vcc(startup on)
Start-up
Circuit
R
Q
S
IDP(Limiit )
Sens.
IDP(Burst)
Sens.
Over
Heating
Protector
1
Zero
Curr.Det.
Ondead
Timer
Standby
Circuit
R
Q
S
Soft-
Drive
Vref
IF/B
2
ON width
timer
3

**Signal name**

| Pin No. | Name | Symbol |
|---|---|---|
| **1** | **Zero Current Det.** | **Z/C** |
| **2** | **Feed back** | **F/B** |
| **3** | **GND** | **GND** |
| **4** | **Vcc** | **Vcc** |
| **5** | **Drain** | **Drain** |

# 13. Taking out the Disc from RAM-Drive Unit when

# the Disc cannot be ejected by OPEN/CLOSE button

## 13.1. Forcible Disc Eject

### 13.1.1. When the power can be turned off.

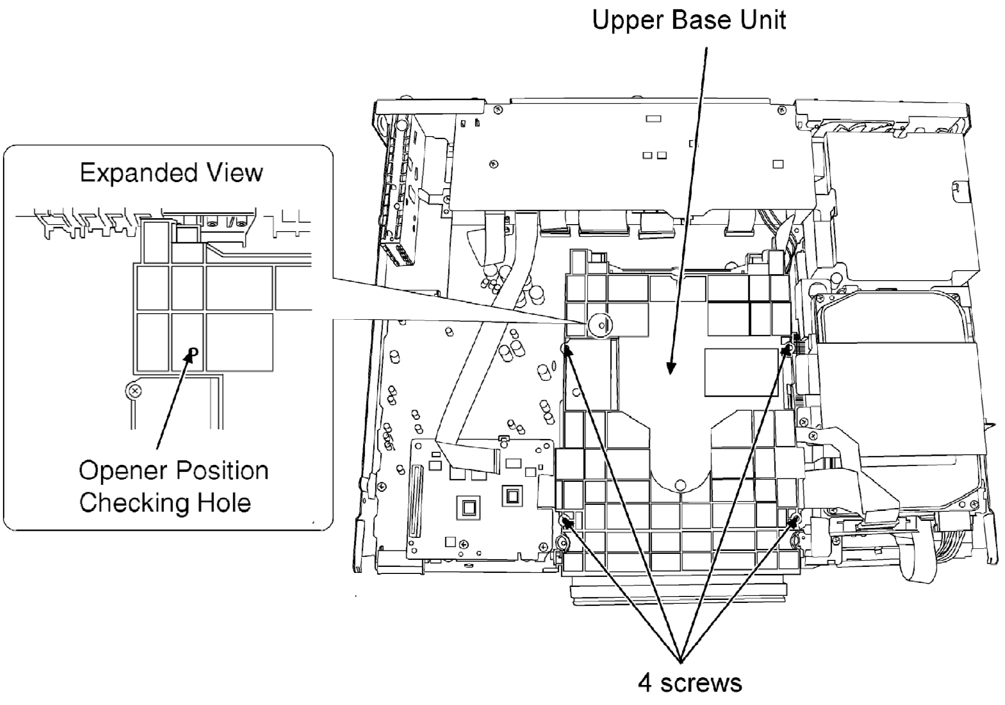
1. Turn off the power and press [STOP] [CH UP] keys on the front panel simultaneously for 5 seconds.

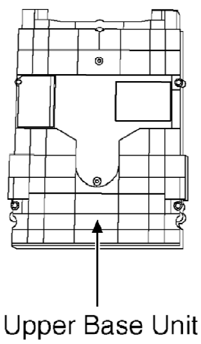
### 13.1.2. When the power can not be turned off.

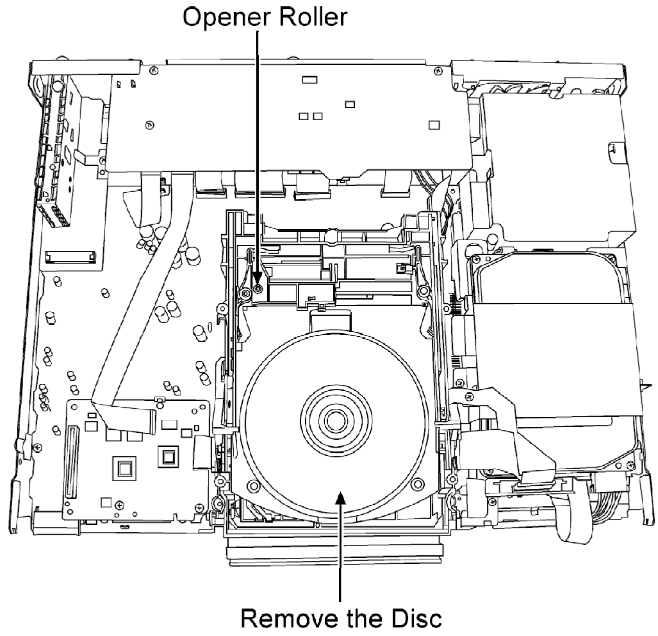
1. Press [POWER] key on the front panel for over 10 seconds to turn off the power forcibly, and press [STOP] [CH UP] keys on the front panel simultaneously for 5 seconds.

## 13.2. When the Forcible Disc Eject can not be done.

1. Turn off the power and pull out AC cord.
2. Remove the Top Case.
3. Remove the Front Panel.
4. Remove 4 screws and Upper Base Unit from DVD-RAM Drive.
5. Take out the disc and put the Opener Roller on fully position for direction of Arrow.
6. Put the Upper Base Unit so that the Opener Roller is inserted into the groove.
7. Check center of Opener Roller is seen through the Opener position Checking Hole, and tighten 4 screws.


Upper Base Unit
Expanded View
Opener Position
Checking Hole
4 screws


Upper Base Unit


Opener Roller
Remove the Disc

# 14. Service Explorer

**Confirm “RAM-Drive Last Error” in Service Mode**

**Execute Service Mode**

### 1. Press [STOP], [TIME SLIP] and [OPEN/CLOSE] simultaneously for 5 seconds when P-off.

**FL Display:**

SERVICE MODE

***After finishing display "(7). Factor of Drive Error occurring", press [0] [2] ~[9] [9] keys of the Remote Controller so that 99 memories can be displayed as maximum.**

## 2. Press [4] [2] keys of remote controller.

**Example of FL Display:**

**(1) Error Number is displayed for 5 seconds.**

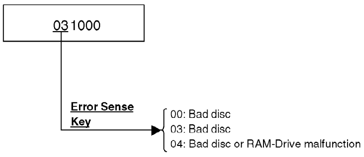
NO 01

**(2) Time when the error has occurred is displayed for 5 seconds.**

40216191526

The error has occurred at 2004(year)/Feb.(month)/16(day)/19(hour):15(minute):26(second)

**(3) Last Drive Error (1/2) is displayed for 5 seconds.**



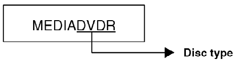
**When above error codes are displayed, confirm operation with Panasonic RAM disc or Panasonic DVD-R disc.**
***If the operation is OK, judge the error is due to media.**
***If the operation is NG and symptom as BLOCK NOISES and so on that are particular symptom of Digital appears, judge the error is due to RAM-Drive or Digital PCB.**

**(4) Last Drive Error (2/2) is displayed for 5 seconds.**

00 13 00 00

*This error code is unnecessary for service.

**(5) Error occurring Disc type is displayed for 5 seconds.**



*The error disc cannot be specified, display as "DVD".

**(6) Disc Maker's ID is displayed for 5 seconds.**

MXL R 061

**Example of Disc Maker's ID:**
**DVD-R Disc**

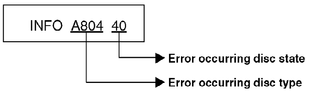
| No. | FL Display (Disc Maker's ID) | Disc Maker | Country |
|---|---|---|---|
| 1 | MEI | Panasonic | Japan |
| 2 | PVC | Pioneer | Japan |
| 3 | MCC | Mitsubishi Chemical Corporation | Japan |
| 4 | TDK | TDK | Japan |
| 5 | MXL | Maxell | Japan |
| 6 | MCI | MITUI CHEMICALS | Japan |
| 7 | JVC | Victor JVC | Japan |
| 8 | TAIYOYUDEN<br>TYG | Taiyo yuden | Japan |
| 9 | GSC | Giga Storage | Taiwan |
| 10 | PRODISC | Prodisc | Taiwan |
| 11 | PRINCO | PRINCO | Taiwan |
| 12 | RITEK | RITEK | Taiwan |
| 13 | OPTDISC | OPTDISC | Taiwan |
| 14 | LEAD DATA | LEAD DATA | Taiwan |
| 15 | CMC | CMC | Taiwan |
| 16 | AUVISTAR | AUVISTAR | Taiwan |
| 17 | ACER | Acer | Taiwan |
| 18 | VIVASTAR | VIVASTAR | Switzerlan / d |
| 19 | LGE | LG Electronics | Korea |

**DVD-RAM Disc**

| No. | FL Display (Disc Maker's ID) | Disc Maker | Country |
|---|---|---|---|
| 1 | MEI | Panasonic | |
| 2 | MATSUSHITA | Panasonic | Japan |
| 3 | MXL | Maxell | Japan |
| 4 | PRODISC | Prodisc | Taiwan |
| 5 | OPTDISC | OPTDISC | Taiwan |
| 6 | CMC | CMC | Taiwan |

***Since an display is arbitrarily set up by the disk producer side, the above-mentioned display may be changed.**
**Please make it reference as an example of a display.**

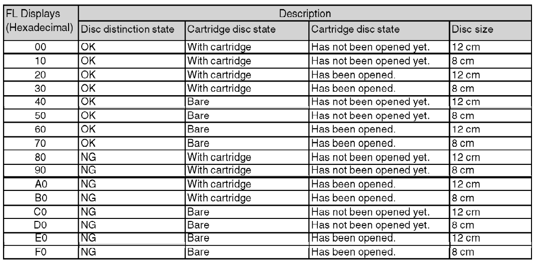
**(7) Factor of Drive Error occurring is left displayed**



**Error Occurring Disc Type**

| FL Display | Disc Type |
|---|---|
| **00** | **DVD-ROM/Video** |
| **01** | **Audio-CD** |
| **02** | **2.6GB DVD-RAM** |
| **03** | **4.7GB DVD-RAM** |
| **04** | **DVD-R** |

**Error Occurring Disc State**



| FL Displays (Hexadecimal) | Description | | | |
|---|---|---|---|---|
| | Disc distinction state | Cartridge disc state | Cartridge disc state | Disc size |
| 00 | OK | With cartridge | Has not been opened yet. | 12 cm |
| 10 | OK | With cartridge | Has not been opened yet. | 8 cm |
| 20 | OK | With cartridge | Has been opened. | 12 cm |
| 30 | OK | With cartridge | Has been opened. | 8 cm |
| 40 | OK | Bare | Has not been opened yet. | 12 cm |
| 50 | OK | Bare | Has not been opened yet. | 8 cm |
| 60 | OK | Bare | Has been opened. | 12 cm |
| 70 | OK | Bare | Has been opened. | 8 cm |
| 80 | NG | With cartridge | Has not been opened yet. | 12 cm |
| 90 | NG | With cartridge | Has not been opened yet. | 8 cm |
| A0 | NG | With cartridge | Has been opened. | 12 cm |
| B0 | NG | With cartridge | Has been opened. | 8 cm |
| C0 | NG | Bare | Has not been opened yet. | 12 cm |
| D0 | NG | Bare | Has not been opened yet. | 8 cm |
| E0 | NG | Bare | Has been opened. | 12 cm |
| F0 | NG | Bare | Has been opened. | 8 cm |

# 15. Self-Diagnosis and Special Mode Setting

## 15.1. Self-Diagnosis Functions

**Self-Diagnosis Function provides information for errors to service personnel by “Self-Diagnosis Display” when any error has occurred.**
**U14, H** and F** are stored in memory and held.**
**Display on FL will be cancelled when the power is turned off or AC input is turned off during self -diagnosis display is ON.**

| Error Code | Diagnosis contents | Description | Monitor Display | Automatic F |
|---|---|---|---|---|
| **U12** | **Remote control code error** | **Display appears when main unit and remote controller codes are not matched.** | **No display** | *CHK RE<br>**"*" is remote c code of the ma**<br>**Display for 5 s** |
| **U14** | **Abnormal inner temperature detected** | **Display appears when the drive temperature exceeds 70°C.**<br>**The power is turned off forcibly.**<br>**For 30 minutes after this, all key entries are disabled. (Fan motor operates at the highest speedfor the first 5 minutes. For the remaining 25 minutes, fan motor is also stopped.) The event is saved in memory as well.** | **No display** | U14<br>**"U14" is displa minutes.** |
| **U99** | **Hang-up** | **Displayed when communication error has occurred between Main microprocessor and Timer microprocessor.** | **No display** | U99<br>**Displayed is le [POWER] key i** |
| **H01** | **Inoperative fan motor** | **When inoperative fan motor is detected after powered on,**<br>**the power is turned off when detecting.** | **No display** | **No Display.** |
| **F00** | **No error information** | **Initial setting for error code in memory**<br>**(Error code Initialization is possible with error code initialization and main unit initialization.)** | **No display** | **No Display.** |
| **F01** | **Drive hardware error** | **When drive unit error is detected, the event is saved in memory.** | **No display** | **No Display.** |
| **F12** | **Initialization error when main microprocessor is started up for program recording** | **When initialization error is detected after starting up main microprocessor for program recording, the event is saved in memory.**<br>**The power is turned off when detecting.** | **No display** | **No Display.** |

| Error Code | Diagnosis contents | Description | Monitor Display | Automatic F |
|---|---|---|---|---|
| UN- / SUP-PORT | Unsupported disc error | *An unsupported format disc was played, although the drive starts normally.<br>*The data format is not supported, although the media type is supported.<br>*Exceptionally incaseof the disc is dirty. | “This disc is incompatible.” | UNSUPPO<br>Display for 5 s |
| NO READ | Disc read error | *A disc is flawed or dirty.<br>*A poor quality failed to start.<br>*The track information could not be read. | “Cannot read. Please check the disc.” | NOREAD |
| HARD ERR | Drive error | The drive detected a hard error. | “DVD drive error.” | Display for 5 s<br>HARD ER |
| SELF CHECK | Restoration operation | Since the power cord fell out during a power failure or operation, it is under restoration operation.<br>*It will OK, if a display disappears automatically. If a display does not disappear, thereis the possibility that defective Digital P.C.B. / RAM drive. | No display | SELF CHE |
| Full Program | 32 programs are already set. | 32 programs are already set. | No display | PROG FUL |
| HDD SLEEP | In order to extend HDD life, the HDD is in SLEEP (not activated) mode. | If there is no disc in the unit, the HDD will go into SLEEP mode after there has been no operation for 30 minutes or longer.<br>*While in SLEEP mode play or recording may not begin rightaway because the HDD takes time to be re-activated. |  | HDD |

## 15.2. Special Modes Setting

| Item | | FL display | Key oper |
|---|---|---|---|
| Mode name | Description | | Front K |
| TEST Mode | *All the main unit's parameters (include tuner) are initialized. | TEST L1 | Press [SKIP (RE SLIP] and [OPE keys simultane five seconds wh is off. |
| Service Mode | Setting every kind of modes for servicing.<br>*Details are described in “15.3. Service Mode ”. | SERVICE MODE | When the powe press [STOP], [ and [OPEN/CL simultaneously seconds. |
| Rating password | The audiovisual level setting password is initialized to “Level 8”. | INIT | Open the tray, a [SKIP (REV)] an (FWD)] simulta five seconds. |
| Forced disc eject | Removing a disc that cannot be ejected.<br>The tray will open and unit will shift to P-off mode.<br>*When Timer REC is ON or EXT-LINK is ON, execute " Forced disc eject " after releasing TimerREC or EXT-LINK.<br>*This command is not effective during "Child lock" is ON. | The display before execution leaves.<br>************ | When the powe press [STOP] a keys simultane five seconds. |
| Forced power-off | When the power button is not effective while power is ON, turn off the power forcibly.*When Timer REC is ON or EXT-LINK is ON, execute “Forced Power-off” after releasing Timer RECor EXT-LINK.<br>Action:<br>The tray will open, and the power will turn off. | Display in P-off mode. | Press [Power] k than 10 second |

| Item | | FL display | Key oper |
|---|---|---|---|
| Mode name | Description | | Front K |
| Aging | Perform sequence of modes as * Aging Description shown below continually. | Display following the then mode. | When the powe press [CH DOW SLIP] and [OPE CLOSE] simulta for over five sec less than 10 sec<br>*The [REC MOD be set to EP or<br>*Whenthe unit h up because of p keys for over 10 once turn off th and re-execute command.<br>“When releasin mode, press [P key. |
| Demonstration lock/unlock | Ejection of the disc is prohibited.<br>The lock setting is effective until unlocking the tray and not released by “Main unit initialization” of service mode. | *When lock the tray.<br>LOCK<br>“LOCK” is displayed for 3 seconds. | When the powe press [STOP] a [POWER] keys simultaneously seconds. |
| | | *When unlock the tray.<br>UNLOCK<br>“UNLOCK” is displayed for 3 seconds. | When the powe press [STOP] a [POWER] keys simultaneously seconds. |
| | | *When press OPEN/ CLOSE key while the tray being locked.<br>LOCK<br>Display “LOCK” for 3 seconds. | Press [OPEN/C while the tray b locked. |
| ATP Initialization | ATP setting is initialized, and the unit turns off automatically. | It is same with display in stop mode.<br>************ | When the powe E mode), press and [CH DOWN] simultaneously seconds. |

| Item | | FL display | Key opera |
|---|---|---|---|
| Mode name | Description | | Front K |
| Progressive initialization | The progressive setting is initialized to Interlace. | The display before execution leaves.<br>************ | When the powe<br>E mode), press<br>and [TIME SLIP]<br>simultaneously<br>seconds. |

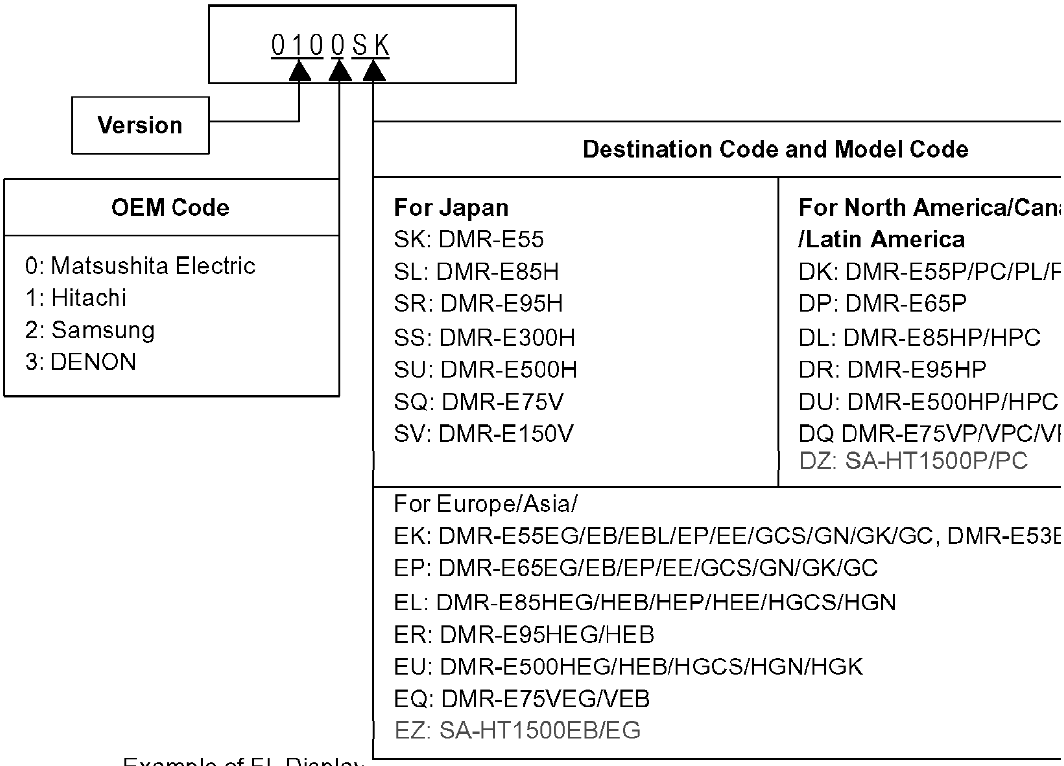
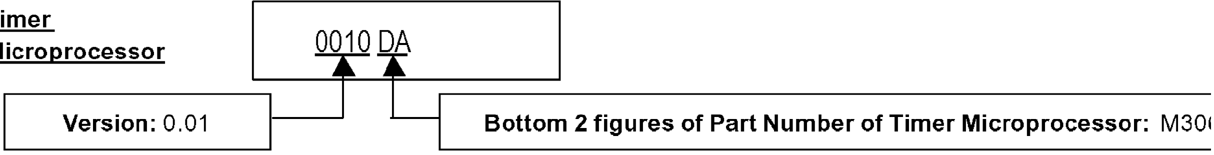
**Aging Contents (Example):**

Format→REC→Play→STOP→Play→Skip(R)→Cue
↑ ↓
Stop←Play←R-Slow←Slow←Pause←Play←Rev
*The unit repeats above sequence.

## 15.3. Service Modes

**Service mode setting: While the power is off, press TIME SLIP, STOP and OPEN / CLOSE simultaneously for five seconds.**

| Item | | FL display | Key opera |
|---|---|---|---|
| Mode name | Description | | (Remote contr |
| Release Items | Item of Service Mode executing is cancelled. | SERVICE MODE | Press [0] [0] or<br>service mode. |
| Error Code Display | Last Error Code of U14/H/F held by Timer is displayed on FL.<br>*Details are described in “15.1. Self-Diagnosis Functions”. | ♣□□<br>*♣ shows U/H/F.<br>□□ shows number. | Press [0] [1] in<br>mode |
| ROM Version Display | Region code, MAIN firm version, TIMER firm version and DRIVE firmware versions are displayed on FL for five seconds per each version in order, but ROM version will be left displayed. | REGION*<br>MAIN ******<br>TIMER******<br>DRIVE ****<br>ROM * ***<br>“” are version displays. | Press [0] [2] in<br>mode |

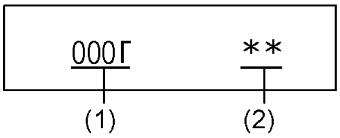
| Item | | FL display | Key oper |
|---|---|---|---|
| **Mode name** | **Description** | | **(Remote contr** |
| **Version Display of Main Microprocessor** | Example of FL Display<br><br>0100SK<br>**Version**<br>**OEM Code**<br>0: Matsushita Electric<br>1: Hitachi<br>2: Samsung<br>3: DENON<br>**Destination Code and Model Code**<br>**For Japan**<br>SK: DMR-E55<br>SL: DMR-E85H<br>SR: DMR-E95H<br>SS: DMR-E300H<br>SU: DMR-E500H<br>SQ: DMR-E75V<br>SV: DMR-E150V<br>**For North America/Can**<br>**/Latin America**<br>DK: DMR-E55P/PC/PL/<br>DP: DMR-E65P<br>DL: DMR-E85HP/HPC<br>DR: DMR-E95HP<br>DU: DMR-E500HP/HPC<br>DQ DMR-E75VP/VPC/V<br>DZ: SA-HT1500P/PC<br>For Europe/Asia/<br>EK: DMR-E55EG/EB/EBL/EP/EE/GCS/GN/GK/GC, DMR-E53<br>EP: DMR-E65EG/EB/EP/EE/GCS/GN/GK/GC<br>EL: DMR-E85HEG/HEB/HEP/HEE/HGCS/HGN<br>ER: DMR-E95HEG/HEB<br>EU: DMR-E500HEG/HEB/HGCS/HGN/HGK<br>EQ: DMR-E75VEG/VEB<br>EZ: SA-HT1500EB/EG | | |
| **Version Display of Timer Microprocessor** | Example of FL Display<br><br>0010 DA<br>**Version:** 0.01<br>**Bottom 2 figures of Part Number of Timer Microprocessor:** M30 | | |
| **White Picture Output** | **White picture is output as component Output from AV Decoder.**<br>***White picture**<br>**(Saturation rate : 100%)**<br>***It is enable to switch Interlace/ Progressive by "I/Pswitch: [1] [4]"** | ***Initial mode is "Interlace".**<br>WHIT I | **Press [1] [1] in**<br>**mode.** |
| | | **Switch Interlace/ Progressive**<br>WHIT P | **Press [1] [4] in**<br>**Picture Output**<br>***I/P are switche**<br>**alternately.** |

| Item | | FL display | Key oper |
|---|---|---|---|
| Mode name | Description | | (Remote contr |
| Magenta Picture Output | Magenta picture is output with Component Output from AV Decoder.<br>*Magenta picture<br>(Saturation rate: 100%)<br>*It is enable to switch Interlace/ Progressive by “I/Pswitch: [1] [4]” | *Initial mode is “Interlace”.<br>MAGE I | Press [1] [2] in<br>mode. |
| | | Switch Interlace/ Progressive<br>MAGE P | Press [1] [4] in<br>Picture Output<br>*I/P are switche<br>alternately. |
| RTSC Return in XP<br>(A & V) | L1 input signal is encoded (XP), decoded (XP) and output decoded signal to external without DISC recording and DISC playback. | Initial mode: EE2/ Interlace / XP/ Audio 48kHz<br>EE2 I XP 48 | Press [1] [3] in<br>mode. |
| | | Switch Interlace/ Progressive<br>EE2 P XP 48 | Press [1] [4] in<br>Return XP mod<br>*I/P are switche<br>alternately. |
| | | Audio 44.1 kHz/ 48 kHz Switch<br>EE2 P XP 44 | Press [2] [4] in<br>Return XP mod<br>*48 kHz / 44.1 k<br>switched altern |
| I/P Switch | Switch Interlace and Progressive in EE mode.<br>*Initial setting is “Interlace”.<br>*This command is effective during executing “White Picture Output”, “MagentaPicture Output” and “RTSC Return in XP (A & V)” modes. | Initial mode is Interlace<br>SERVICE I<br>Switch Interlace/ Progressive<br>SERVICE P | Press [1] [4] in<br>mode.<br>*I/P are switche<br>alternately. |
| Audio Mute (XTMUTE) | Check whether mute is applied normally by the timer microprocessor. | TIMER MUTE | Press [2] [1] in<br>mode. |
| Audio Mute (XDMUTE) | Check whether mute is applied normally by the Digital P.C.B. (GLUE IC). | MAIN MUTE | Press [2] [2] in<br>mode. |

| Item | | FL display | Key opera |
|---|---|---|---|
| **Mode name** | **Description** | | **(Remote contr** |
| **Audio Pattern Output** | **The audio pattern stored in the internal memory is output**<br>**(Lch: 1kHz/-18dB)**<br>**(Rch: 400Hz/-18dB)**<br>***Audio sound clock switching operation of DAC canbe confirmed by sub command [2] [4].** | **Initial mode (Audio 48kHz)**<br>AUDIO 48 | **Press [2] [3] in s mode.** |
| | | **Audio 44.1kHz/48kHz switching**<br>AUDIO 44 | **Press [2] [4] in A Pattern Output r**<br>***48 kHz / 44.1 kH switched altern** |
| **HDD READ inspection** | **Perform a complete read inspection of the HDD.** | **When the HDD is OK**<br>HDD RDOK<br>**If the HDD is defective**<br>HDD RDNG□○○<br>**□ : Judge of Forward rate.**<br>*When normal (Forward rate is 35Mbps or more, and there is no HDD error): _ is Space.<br>*When Abnormal (Forward rate is less than 35Mbps): _ is X.<br>○○ **: Number of what have spent time for seeking over 100ms.**<br>*When normal: ○○ are spaces.<br>*When Abnormal: Display Number of what have spent time for seeking over 100ms. However, if the number is more than 100, Display [XX].<br>We judge it is normal that the number is less than 4. | **Press [3] [1] in t mode.**<br>***When cancelin checking mode executing, do "f power-off".**<br>**Method:**<br>**Press the "POW button on the Fr more than 10 se** |
| **Laser Used Time Indiction** | **Check laser used time (hours) of drive.** | LASER*****<br>● **(*****) is the used time display in hour.**<br>● **Laser used timeof DVD/ CD in Playback/ Recording mode is counted.** | **Press [4] [1] in s mode.** |
| **Delete the Laser Used Time** | **Laser used time stored in the memory of the unit is deleted.** | CLR LASER | **Press [9] [5] in s mode.** |

| Item | | FL display | Key opera |
|---|---|---|---|
| Mode name | Description | | (Remote contr |
| RAM Drive Last Error | RAM Drive error code display.<br>*For details about the drive error code, refer to the Service Manual for the specific RAM Drive.<br>*Details are described in “14. Service Explorer ”. | 1. Error Number is displayed for 5 seconds.<br>NO **<br>2. Time when the error has occurred is displayed for 5 seconds.<br>YMMDDhhmmss<br>Y: Year<br>MM: Month<br>DD: Day<br>hh: Hour<br>mm: Minute<br>ss: Second<br>3. Last Drive Error (1/2) is displayed for 5 seconds.<br>******<br>4. Last Drive Error (2/2) is displayed for 5 seconds.<br>********<br>5. Error occurring Disc type isdisplayedfor 5 seconds.<br>MEDIA******<br>6. Disc Maker ID is displayed for 5 seconds.<br>***********<br>7. Factor ofDrive Error occurring is left displayed<br>INFO******* | Press [4] [2] in s<br>mode.<br>Then press [0] [<br>the past 99 erro<br>displayed.<br>Incasethat the s<br>cannot be identi<br>display is black |

| | | | |
|---|---|---|---|
| | | INFO******* | |

| Item | | FL display | Key opera |
|---|---|---|---|
| **Mode name** | **Description** | | **(Remote contr** |
| **Delete the Last Drive Error** | **Delete the Last Drive Error information stored on the DVD RAM-Drive.** | CLR DRIVE | **Press [9] [6] in s mode.** |
| **Turn on all FL/ LEDs** | **All segments of FL and all LEDs are turned on.** | **All segments are turned on.** | **Press [5] [1] in s mode.** |
| **S1 signal output** | **Forcibly superimpose the S1 signal (approx. 4.5V DC) on the EE chroma signal, and check the output on the S terminal.** | S1 OUTPUT | **Press [5] [2] in s mode.** |
| **S2 signal output** | **Forcibly superimpose the S2 signal (approx. 2V DC) on the EE chroma signal, and check the output on the S terminal.** | S2 OUTPUT | **Press [5] [3] in s mode.** |
| **Front connection inspection** | **Press all front keys and check the connection between Main P.C.B. and Front P.C.B.** |  <br>**(1) Each time a key is pressed, segment turned on increases one by one.**<br>**(2) Total umber of keys that have been pressed.** | **Press [5] [4] in s mode.** |
| **Production Date Display** | **Display the date when the unit was produced.** | PD YYYYMMDD<br>**YYY: Year**<br>**MM: Month**<br>**DD: Day** | **Press [6] [1] in s mode.** |
| **Display the accumlated working time** | **Display the accumulated unit's working time.** | ***********<br>**(Indicating unit: Second)** | **Press [6] [4] in s mode.** |

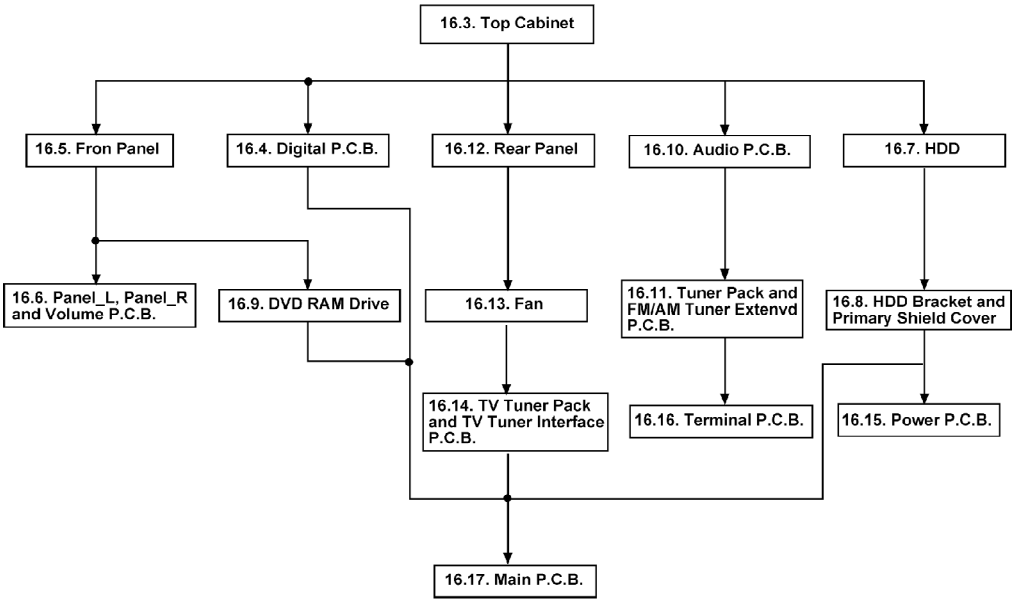
| Item | | FL display | Key oper |
|---|---|---|---|
| Mode name | Description | | (Remote contr |
| Display the Error History | Display the Error History stored on the unit. | Display reason of error for 5 seconds.<br>FTREC***<br>Display the time when the error has occurred for 5 seconds.<br>YYMMDDHHMM<br>YY: Year<br>MM: Month<br>DD: Day<br>HH: Hour<br>MM: Minute<br>Display the accumlated working time to occurring of the error for 5 seconds.<br>***********<br>(Indicating unit: Second) | Press [6] [5] in s mode.<br>Then press [0] [ the past 19 erro are displayed. |
| Delete the Error History | Delete Error History information stored on the unit. | CLR FTREC | Press [9] [7] in s mode. |
| Tray OPEN/ CLOSE Test | The RAM drive tray is opened and closed repeatedly. | NO*********<br>"*" is number of open/ close cycle times. | Press [9] [1] in s mode<br>*When releasin mode, press the button on Front more than 10 se |
| Error code initialization | Initialization of the last error code held by timer (Write in F00) | CLR E-CODE | Press [9] [8] in s mode. |
| Initialize Service | Last Drive Error, Error history and Error Codes stored on the unit are initialized to factory setting. | CLR SERV | Press [9] [9] in s mode. |
| Finishing service mode | Release Service Mode. | Display in STOP (E-E) mode.<br>************ | Press power bu the front panel i mode. |

# 16. Assembling and Disassembling

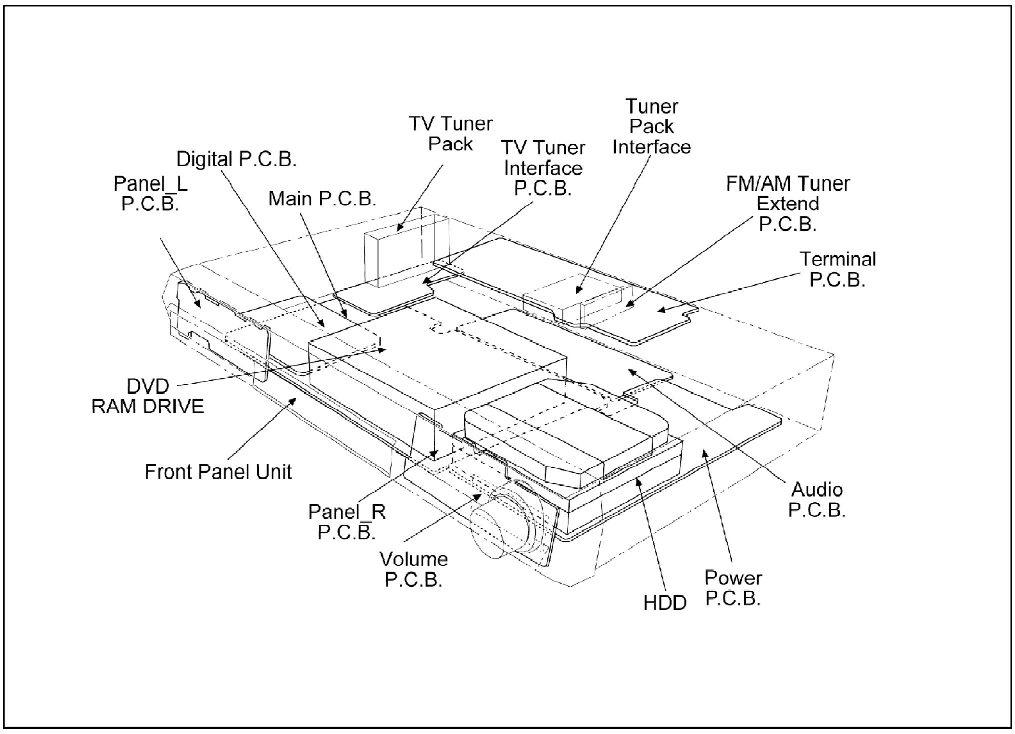
## 16.1. Disassembly Flow Chart

**The following chart is the procedure for disassembling the casing and inside parts for internal inspection when carrying out the servicing.**

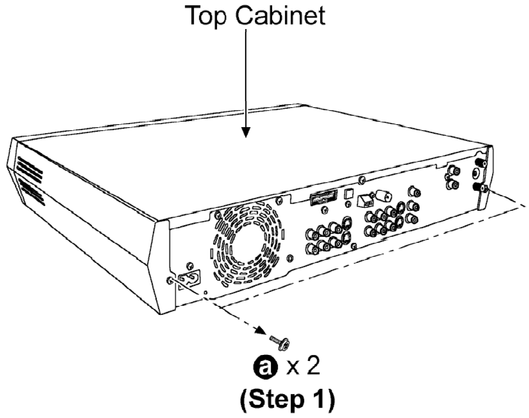
**To assemble the unit, reverse the steps shown in the chart below.**


16.3. Top Cabinet
16.5. Fron Panel
16.4. Digital P.C.B.
16.12. Rear Panel
16.10. Audio P.C.B.
16.7. HDD
16.6. Panel_L, Panel_R and Volume P.C.B.
16.9. DVD RAM Drive
16.13. Fan
16.11. Tuner Pack and FM/AM Tuner Extenvd P.C.B.
16.8. HDD Bracket and Primary Shield Cover
16.14. TV Tuner Pack and TV Tuner Interface P.C.B.
16.16. Terminal P.C.B.
16.15. Power P.C.B.
16.17. Main P.C.B.

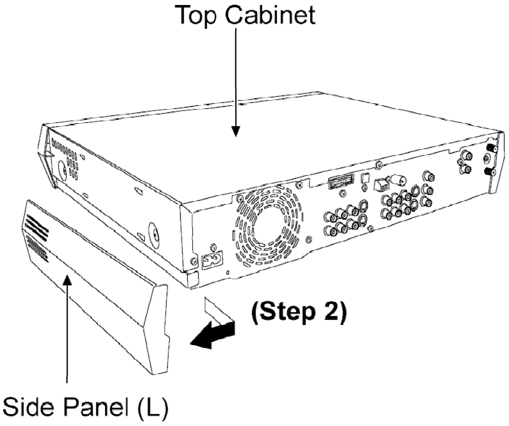
## 16.2. P.C.B. Positions


TV Tuner Pack
Tuner Pack Interface
TV Tuner Interface P.C.B.
Digital P.C.B.
Panel_L P.C.B.
Main P.C.B.
FM/AM Tuner Extend P.C.B.
Terminal P.C.B.
DVD RAM DRIVE
Front Panel Unit
Audio P.C.B.
Panel_R P.C.B.
Volume P.C.B.
Power P.C.B.
HDD

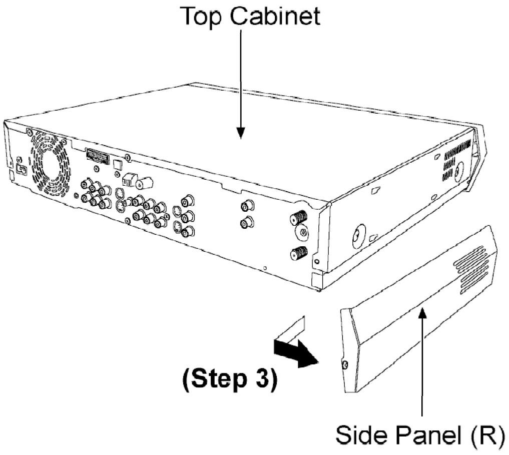
## 16.3. Disassembly of Top Cabinet


Top Cabinet
ⓐ x 2
(Step 1)

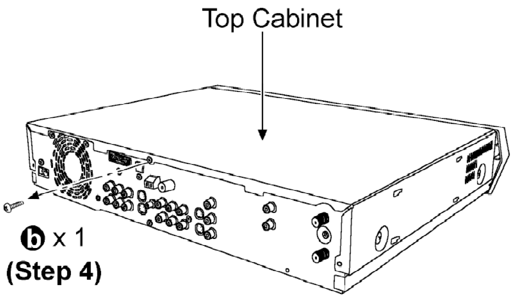
**Step 1: Remove 2 screws.**


Top Cabinet
(Step 2)
Side Panel (L)

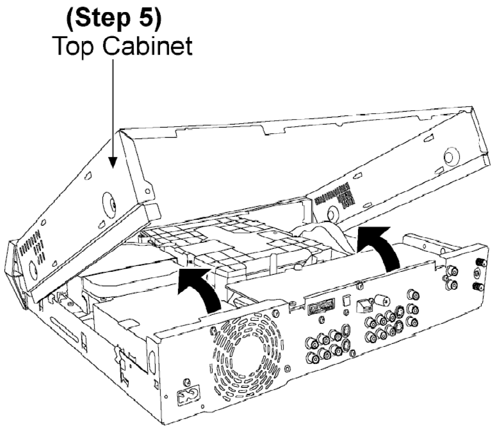
**Step 2: Remove the side panel (L) as arrow shown.**


Top Cabinet
(Step 3)
Side Panel (R)

**Step 3: Remove the side panel (R) as arrow shown.**



**Step 4: Remove 1 screw.**



**Step 5: Lift up the top cabinet as arrow direction shown to remove it.**

## 16.4. Disassembly of Digital P.C.B.

## - Follow the (Step 1) - (Step 5) of Item 16.3.

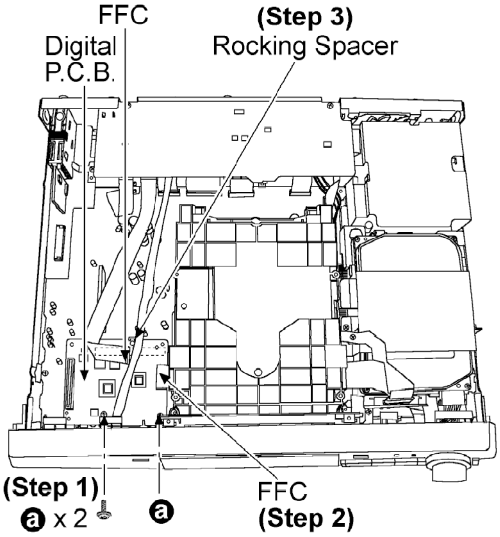
When replacing with Digital P.C.B., "UNFORMAT" indication is displayed and HDD must be formatted.

After that, **programme in the HDD will be lost.**

- How to format the HDD -

1) After "UNFORMAT" is displayed on the FL display, warning message for HDD format is appeared on the TV screen.

2) Select "YES" and press "ENTER" button on the remote controller, HDD will be formatted automatically.


FFC
(Step 3)
Digital
P.C.B.
Rocking Spacer
(Step 1)
a x 2
a
FFC
(Step 2)

**Step 1: Remove 2 screws.**

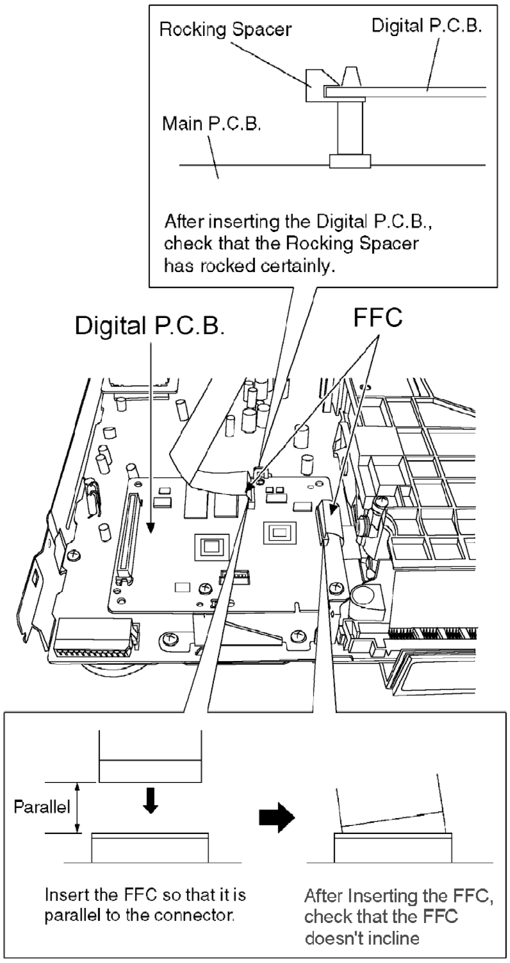
**Step 2: Detach FFCs (FP4401 / FP3501).**

**Step 3: Unlock a Rocking Spacer.**

**Step 4: Lift up Digital P.C.B. slighty to remove it.**

**CAUTION :**

**When replacing Digital P.C.B., pay attention as below.**


Rocking Spacer
Digital P.C.B.
Main P.C.B.
Digital P.C.B.
FFC
Parallel

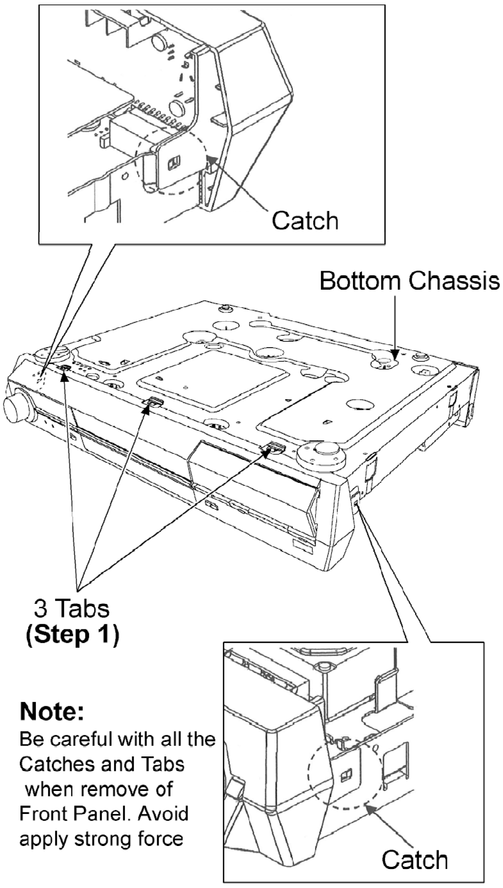
After inserting the Digital P.C.B., check that the Rocking Spacer has rocked certainly.

Insert the FFC so that it is parallel to the connector.

After Inserting the FFC, check that the FFC doesn't incline

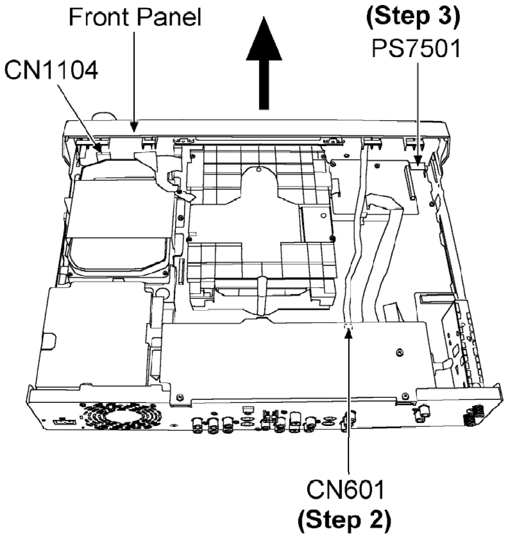
## 16.5. Disassembly of Front Panel

**- Follow the (Step 1) - (Step 5) of Item 16.3.**


Catch
Bottom Chassis
3 Tabs
(Step 1)
Catch

**Note:**
Be careful with all the Catches and Tabs when remove of Front Panel. Avoid apply strong force

**Step 1: Detach 3 tabs and 2 catches at the same time, respectively.**

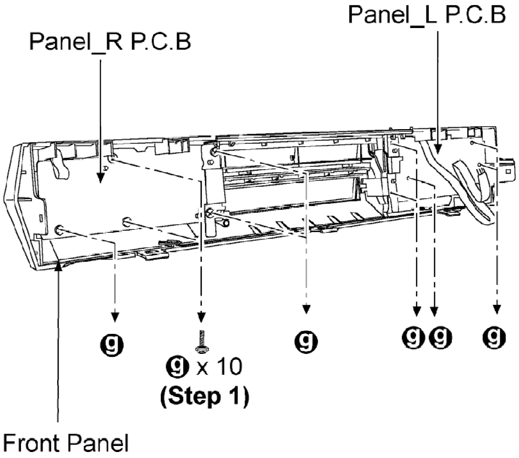

Front Panel
CN1104
(Step 3)
PS7501
CN601
(Step 2)

**Step 2: Detach wire at connectors (CN1104 and CN601).**
**Step 3: Remove the front panel to front side straight and slowly. Be careful the connector (PS7501) when remove the front Panel.**

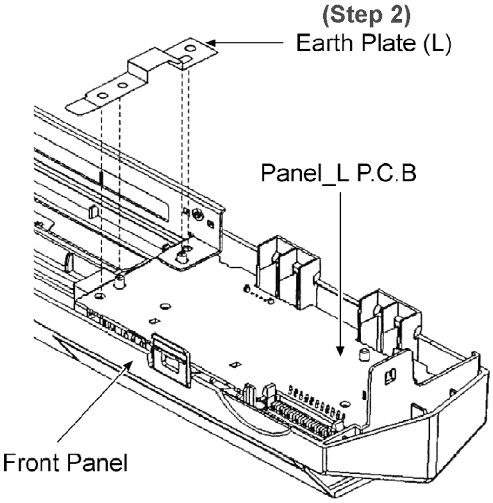
## 16.6. Disassembly of Panel_L, Panel_R and Volume P.C.B.

## - Follow the (Step 1) - (Step 5) of Item 16.3.

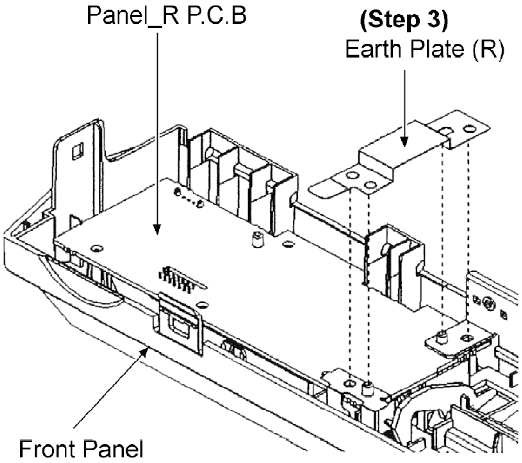
## - Follow the (Step 1) - (Step 3) of Item 16.5.


Panel_L P.C.B
Panel_R P.C.B
9
9 x 10
(Step 1)
9
99
9
Front Panel

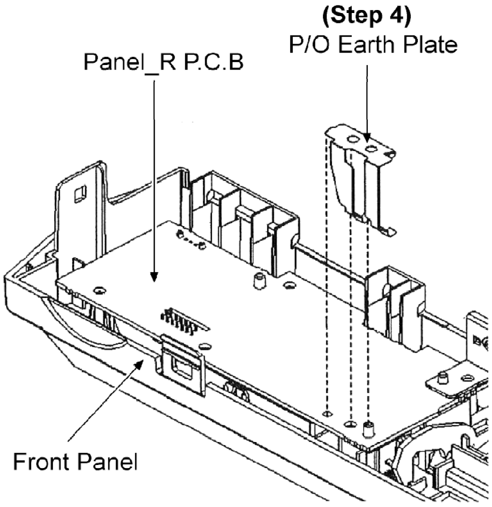
**Step 1: Remove 10 screws.**


(Step 2)
Earth Plate (L)
Panel_L P.C.B
Front Panel

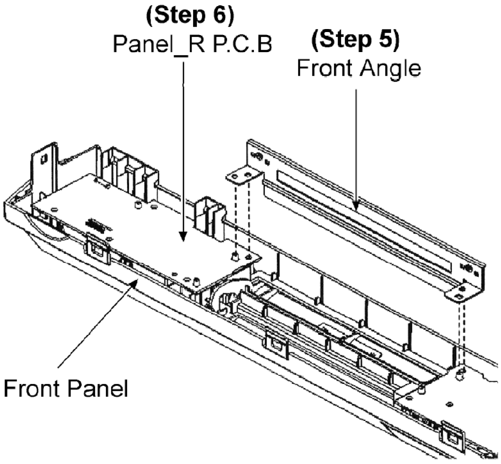
**Step 2: Remove the Earth Plate (L).**


Panel_R P.C.B
(Step 3)
Earth Plate (R)
Front Panel

**Step 3: Remove the Earth Plate (R).**

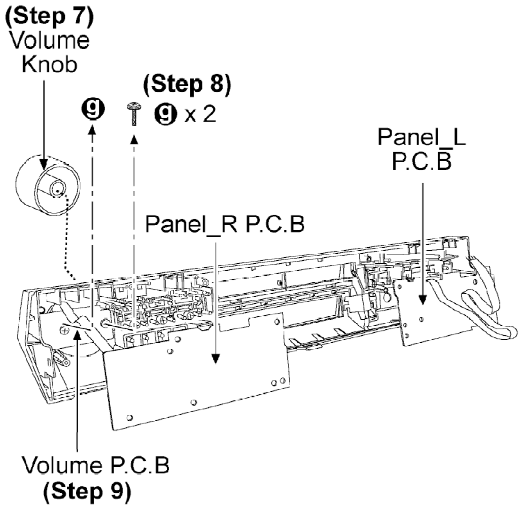

(Step 4)
P/O Earth Plate
Panel_R P.C.B
Front Panel

**Step 4: Remove the P/O Earth Plate.**


(Step 6)
Panel_R P.C.B
(Step 5)
Front Angle
Front Panel

**Step 5: Remove the Front Angle.**

**Step 6: Lift up Panel_L P.C.B to remove it. (Panel_R P.C.B.)**


(Step 7)
Volume
Knob
(Step 8)
ⓖ
ⓖ x 2
Panel_L
P.C.B
Panel_R P.C.B
Volume P.C.B
(Step 9)

**Step 7: Remove the Volume Knob.**
**Step 8: Remove 2 screws.**
**Step 9: Detach Volume P.C.B..**

## 16.7. Disassembly of HDD

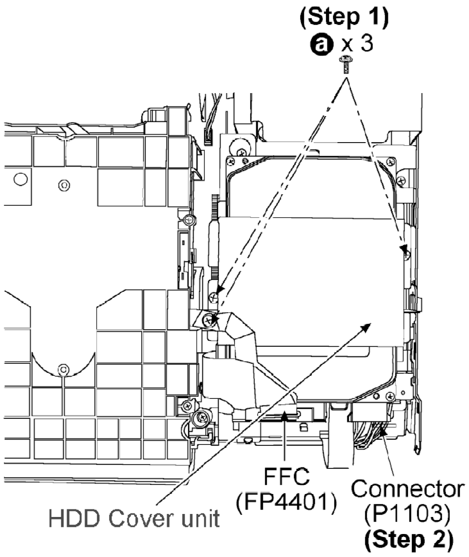
### - Follow the (Step 1) - (Step 5) of Item 16.3.

### - Follow the (Step 1) - (Step 3) of Item 16.5.

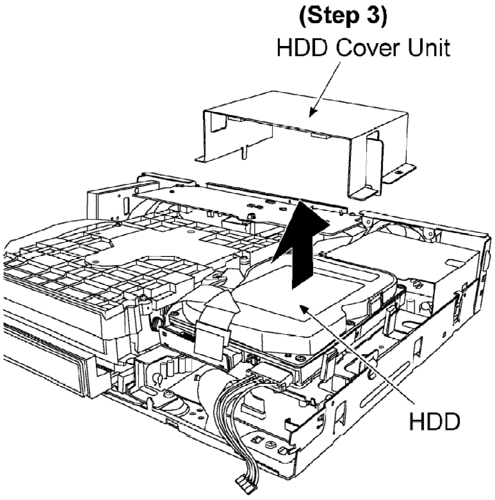
When replacing with HDD, "UNFORMAT" indication is displayed and HDD must be formatted.
After that, programme in the HDD will be lost.

- How to format the HDD -

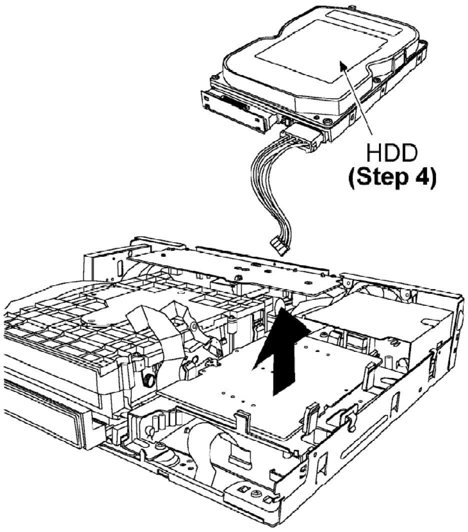
1) After "UNFORMAT" is displayed on the FL display, warning message for HDD format is appeared on the TV screen.
2) Select "YES" and press "ENTER" button on the remote controller, HDD will be formatted automatically.


(Step 1)
ⓐ x 3
FFC
(FP4401)
Connector
(P1103)
(Step 2)
HDD Cover unit

**Step 1: Remove 3 screws.**
**Step 2: Detach FFC Board (FP4401) and Connector (P1103).**


(Step 3)
HDD Cover Unit
HDD

**Step 3: Remove the HDD Cover Unit as arrow shown.**



**Step 4: Lift up the HDD vertically as arrow shown.**

**Handling of HDD**

**The following precautions should be taken when handling HDD.**

1. **Never give an impact to HDD. (Even a drop from 1cm height can be a cause of HDD failure.**
2. **When placing HDD on a workbench, provide a mat on a bench for shock absorption and anti-static purposes.**
3. **When installing HDD, release it from your hands only after confirming that it is fully set on the chassis.**
4. **Avoid stacking up HDD.**
5. **HDD is unstable and easy to fall. Do not stand it on its side face.**
6. **When handling HDD, hold its side faces to avoid static hazard.**
7. **Do not place HDD on its wrapping bag after removal. (Prevention of static hazard**
8. **Use a screwdriver with low impact and anti-static features.**
9. **To replace HDD, remove the vertical short-circuit pin. (Keep the horizontal short-circuit pin in its place)**

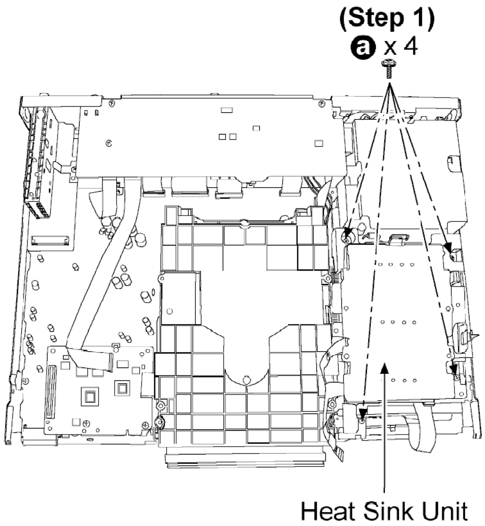
**Note:**

**When replacing HDD, please make the rear jumper slave or cable select configuration.**
**(same configuration as HDD to exchange)**

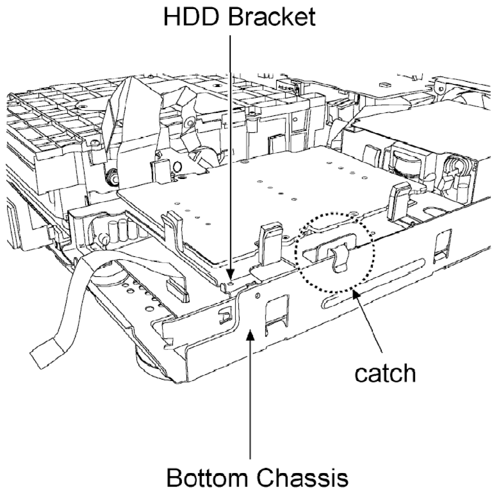
## 16.8. Disassembly of HDD Bracket and Primary Shield Cover

**- Follow the (Step 1) - (Step 5) of Item 16.3.**

**- Follow the (Step 1) - (Step 3) of Item 16.5.**

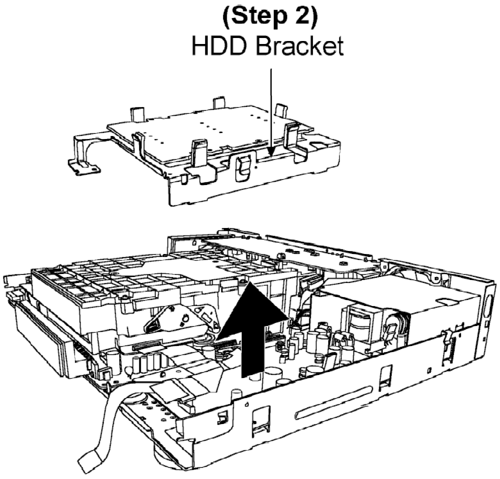


**Step 1: Remove 4 screws.**


HDD Bracket
catch
Bottom Chassis

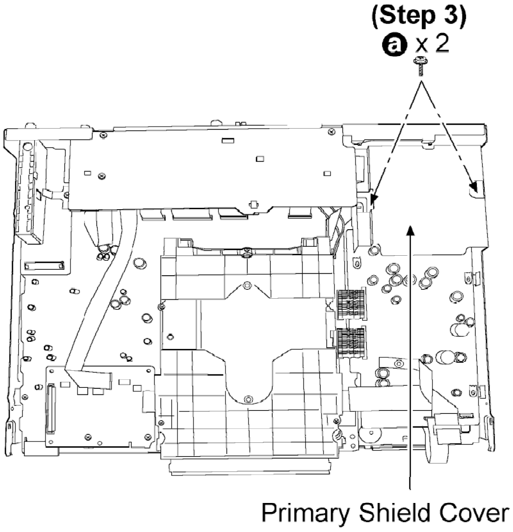
**Caution Note:**

**Be careful of the catch at the bottom chassis.**

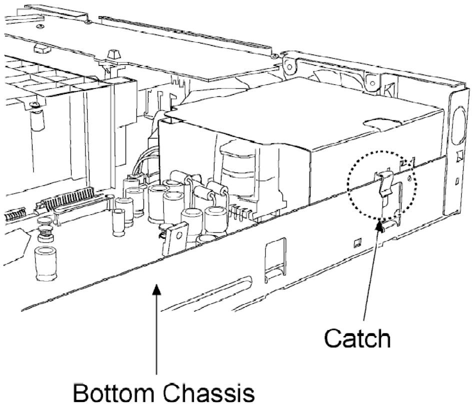

(Step 2)
HDD Bracket

**Step 2: Lift up the HDD Bracket vertically as arrow shown.**

## - Disassembly of primary shield cover

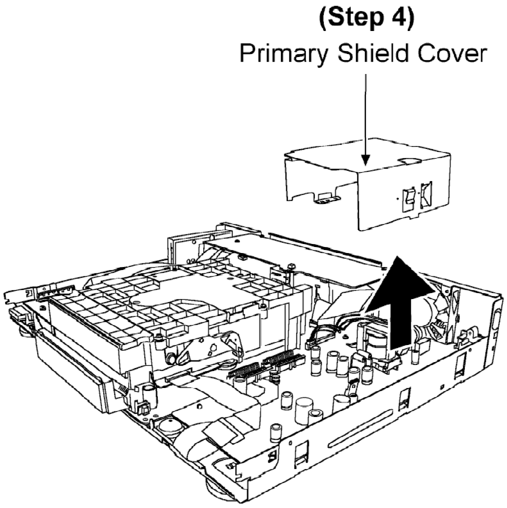

(Step 3)
ⓐ x 2
Primary Shield Cover

**Step 3: Remove 2 screws.**


Catch
Bottom Chassis

**Caution Note:**

**Be careful of the catch at the bottom chassis.**

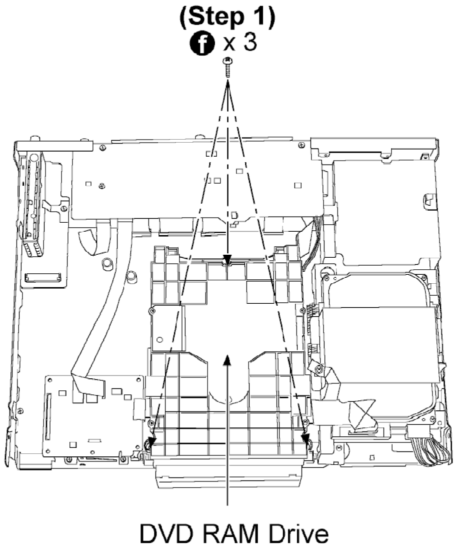

(Step 4)
Primary Shield Cover

**Step 4: Lift up the Primary Shield Cover vertically as arrow shown.**

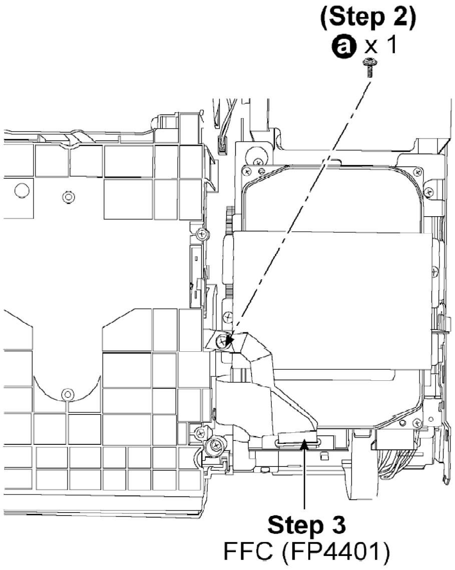
## 16.9. Disassembly of DVD RAM Drive

### - Follow the (Step 1) - (Step 5) of Item 16.3.

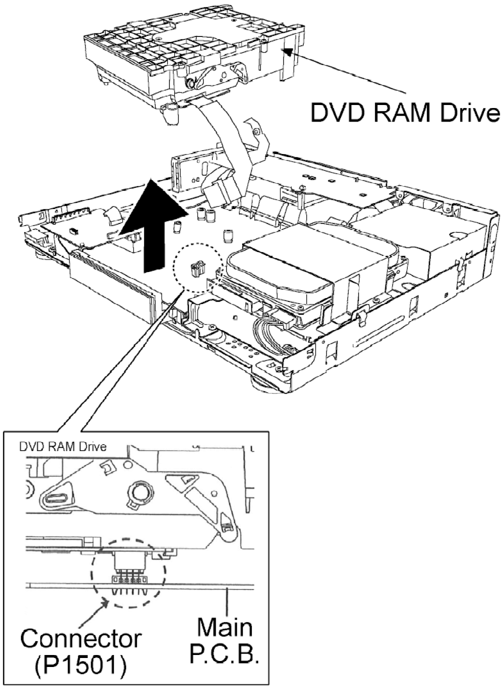
### - Follow the (Step 1) - (Step 3) of Item 16.5.


(Step 1)
ⓕ x 3
DVD RAM Drive

**Step 1: Remove 3 screws.**


(Step 2)
ⓐ x 1
Step 3
FFC (FP4401)

**Step 2: Remove 1 screws.**
**Step 3: Detach FFC Board (FP4401).**

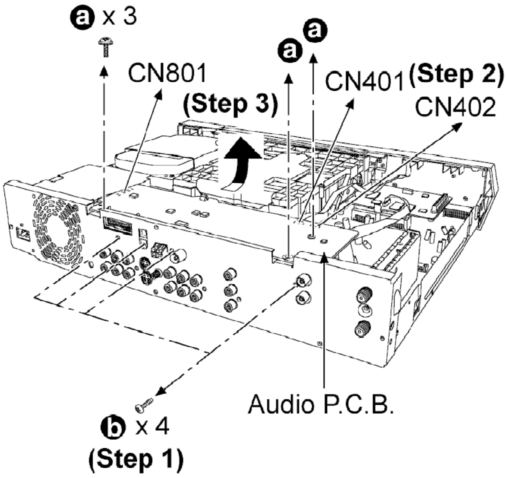

DVD RAM Drive
DVD RAM Drive
Connector
(P1501)
Main
P.C.B.

Caution Note:

**Be careful the connector (P1501) when lift up the DVD RAM Drive vertically as arrow shown.**

## 16.10. Disassembly of Audio P.C.B.

### - Follow the (Step 1) - (Step 5) of Item 16.3.

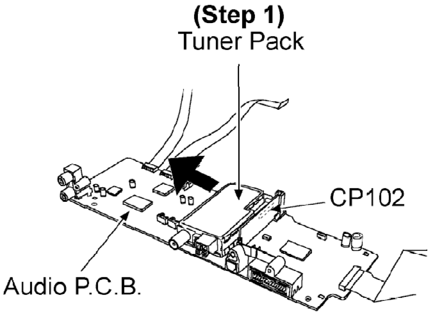

a x 3
CN801
(Step 3)
a
a
CN401
(Step 2)
CN402
Audio P.C.B.
b x 4
(Step 1)

**Step 1: Remove 7 screws.**
**Step 2: Detach FFCs (CN402 / CN401 and CN801).**
**Step 3: Flip up the Audio P.C.B. as arrow shown.**

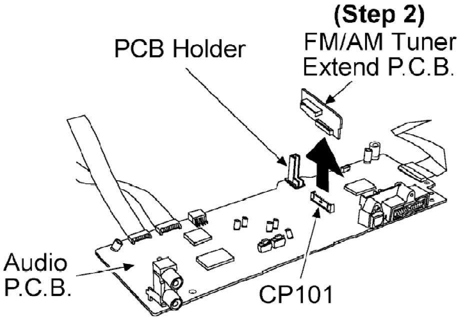
## 16.11. Disassembly of Tuner Pack and FM/AM Tuner Extend P.C.B.

## - Follow the (Step 1) - (Step 5) of Item 16.3.

## - Follow the (Step 1) of Item 16.10.


(Step 1)
Tuner Pack
CP102
Audio P.C.B.

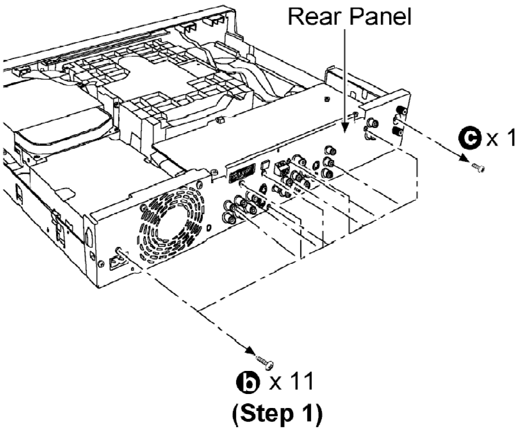
**Step 1: Remove the Tuner Pack as arrow shown.**


(Step 2)
FM/AM Tuner
Extend P.C.B.
PCB Holder
Audio
P.C.B.
CP101

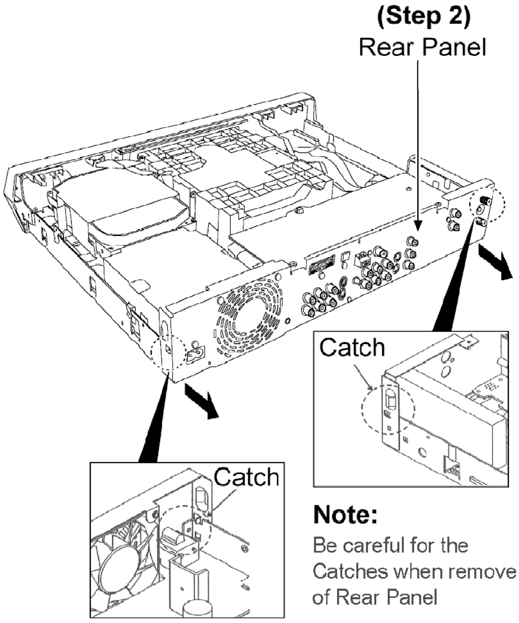
**Step 2: Detach the FM/AM Tuner Extend P.C.B. as arrow shown.**

## 16.12. Disassembly of Rear Panel

## - Follow the (Step 1) - (Step 5) of Item 16.3.


Rear Panel
c x 1
b x 11
(Step 1)

**Step 1: Remove 12 screws.**


(Step 2)
Rear Panel
Catch
Catch

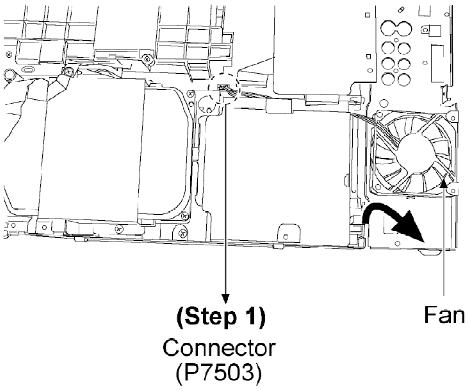
**Note:**
Be careful for the Catches when remove of Rear Panel

**Step 2: Remove the Rear Panel as arrow shown.**

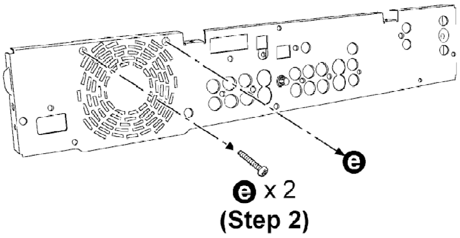
## 16.13. Disassembly of Fan

**- Follow the (Step 1) - (Step 5) of Item 16.3.**

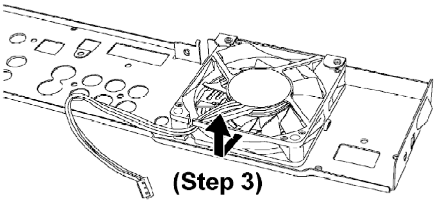
**- Follow the (Step 1) - (Step 2) of Item 16.12.**


(Step 1)
Connector
(P7503)
Fan

**Step 1: Release the connector (P7503).**



**Step 2: Remove 2 screws.**

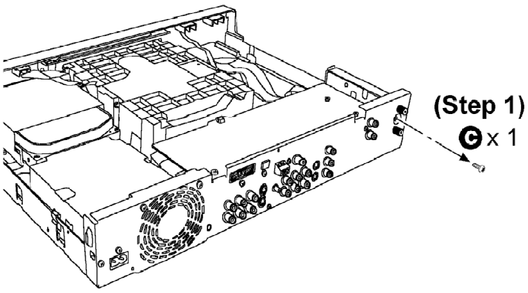


**Step 3: Remove the Fan as arrow shown.**

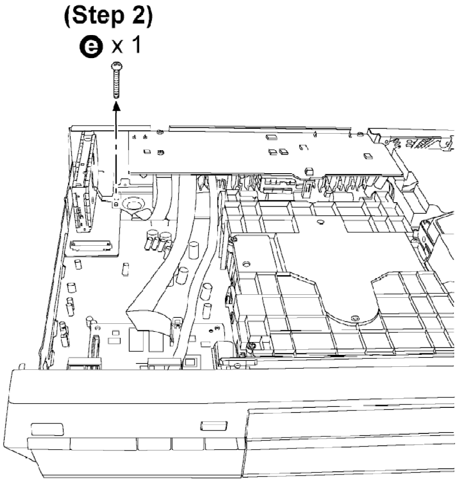
## 16.14. Disassembly of TV Tuner Pack and TV Tuner Interface P.C.B.

### - Follow the (Step 1) - (Step 5) of Item 16.3.

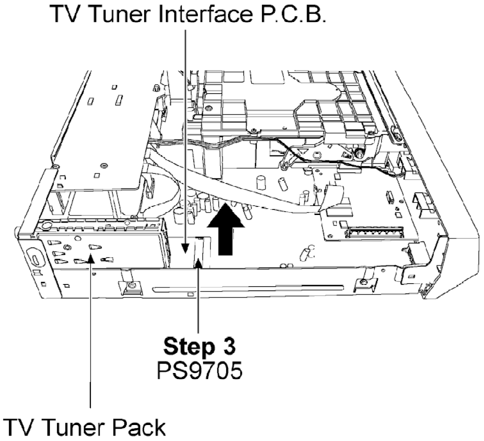
## - Follow the (Step 1) - (Step 2) of Item 16.12.



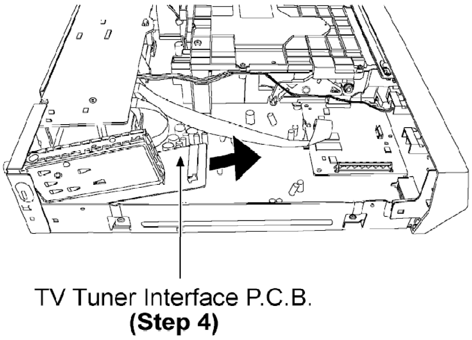
**Step 1: Remove 1 screws.**



**Step 2: Remove 1 screws.**


TV Tuner Interface P.C.B.
Step 3
PS9705
TV Tuner Pack

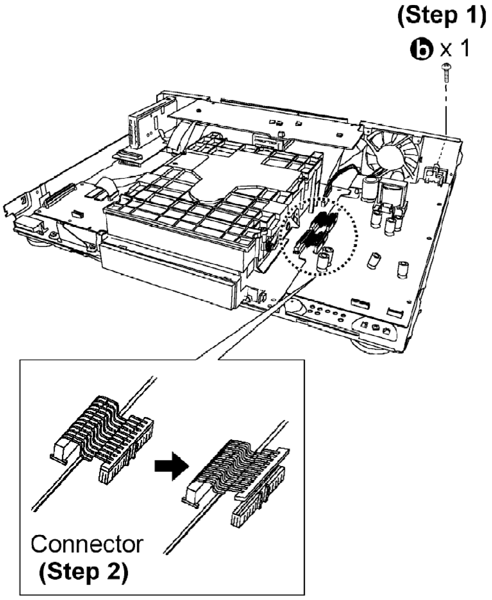
**Step 3: Detach the connector (PS9705) and pull up the TV Tuner Interface P.C.B. with TV Tuner Pack as arrow shown.**


TV Tuner Interface P.C.B.
(Step 4)

**Step 4: Remove the TV Tuner Interface P.C.B. with TV Tuner Pack as arrow shown.**

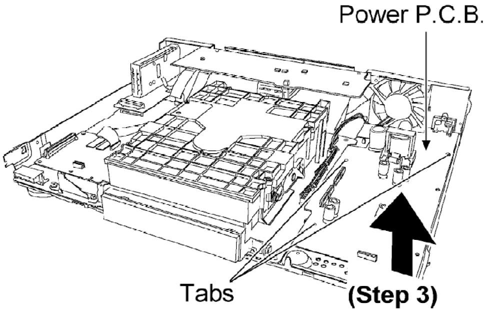
## 16.15. Disassembly of Power P.C.B.

- **Follow the (Step 1) - (Step 5) of Item 16.3.**
- **Follow the (Step 1) - (Step 3) of Item 16.5.**
- **Follow the (Step 1) - (Step 4) of Item 16.7.**
- **Follow the (Step 1) - (Step 4) of Item 16.8.**

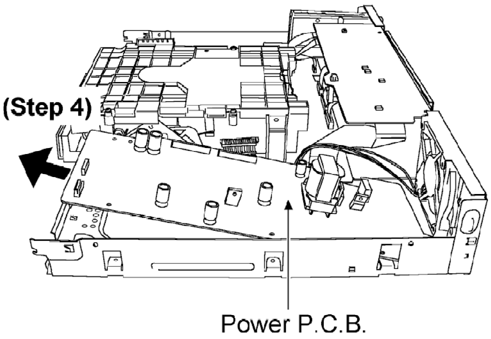

(Step 1)
b x 1
Connector
(Step 2)

**Step 1: Remove 1 screw.**

**Step 2: Release all the connectors (PS1502 and PS1503).**


Power P.C.B.
Tabs
(Step 3)

**Step 3: Lift up the Power P.C.B. slightly so to unlock all the tabs as arrow shown.**


(Step 4)
Power P.C.B.

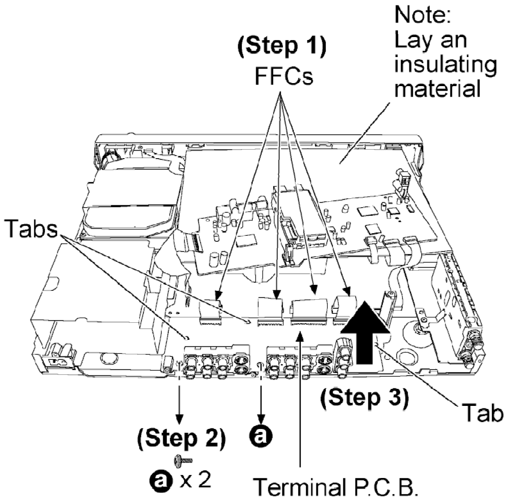
**Step 4: Remove the Power P.C.B. as arrow shown.**

## 16.16. Disassembly of Terminal P.C.B.

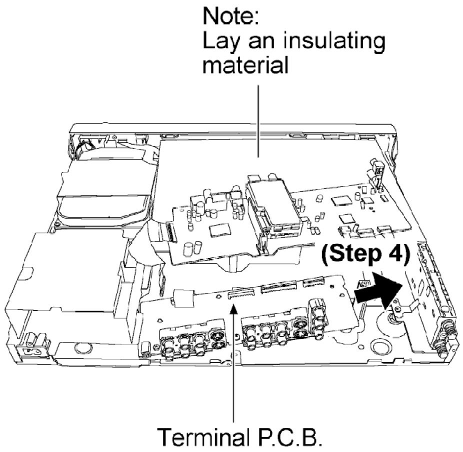
**- Follow the (Step 1) - (Step 5) of Item 16.3.**

**- Follow the (Step 1) of Item 16.10.**

**- Follow the (Step 1) - (Step 2) of Item 16.12.**


(Step 1)
FFCs
Note:
Lay an
insulating
material
Tabs
(Step 3)
Tab
(Step 2)
a
a x 2
Terminal P.C.B.

**Step 1: Detach all the FFCs (CN3902 / CN3904 / CN3906 and CN8001).**
**Step 2: Remove 2 screws.**
**Step 3: Lift up the Terminal P.C.B. slightly upwards to unlock all the tabs.**


Note:
Lay an insulating
material
(Step 4)
Terminal P.C.B.

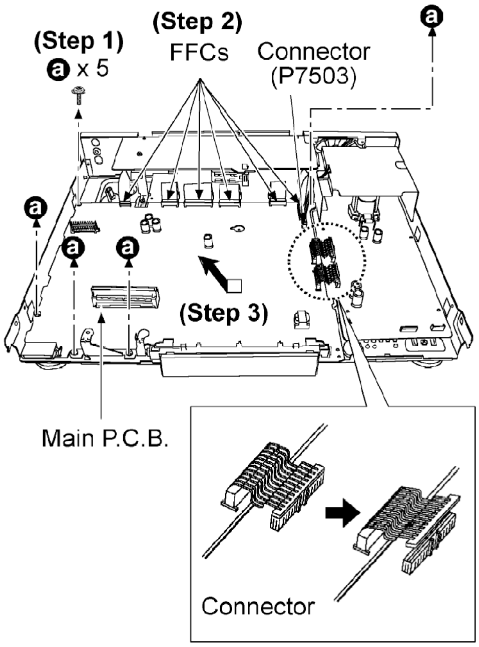
**Step 4: Remove the Terminal P.C.B. as arrow shown.**

**Caution Note:**

**When replacement of terminal P.C.B.. Do take note of terminal P.C.B. siting under power P.C.B..**

## 16.17. Disassembly of Main P.C.B.

**- Follow the (Step 1) - (Step 5) of Item 16.3.**
**- Follow the (Step 1) - (Step 4) of Item 16.4.**
**- Follow the (Step 1) - (Step 3) of Item 16.5.**
**- Follow the (Step 1) - (Step 4) of Item 16.7.**
**- Follow the (Step 1) - (Step 2) of Item 16.8.**
**- Follow the (Step 1) - (Step 2) of Item 16.9.**
**- Follow the (Step 1) - (Step 2) of Item 16.14.**

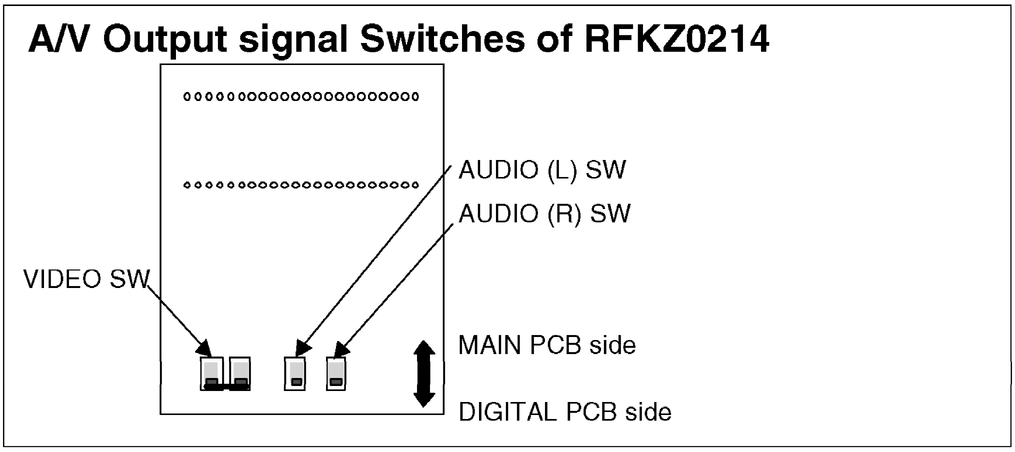


**Step 1: Remove 5 screws.**
**Step 2: Detach FFCs board (P402 / P3902 / P3904 / P3906 / P3908 / P801) and connector (P7503 / PS1502 / PS1503).**
**Step 3: Lift up the Main P.C.B. as arrow shown.**

# 17. Service Fixture and Tools

| Part Number | Description | Compatibilit |
|---|---|---|
| **RFKZ0125** | **Extension FFC (Digital P.C.B. - DVD-RAM Drive / 40 Pin)** | **Same as E50 series** |
| **RFKZ0168** | **Extension Cable (Main P.C.B. - Fan / 3 Pin)** | **Same as E50 series** |
| **RFKZ0169** | **Extension Cable (Power P.C.B. - HDD / 4 Pin)** | **Same as E100H seri** |
| **RFKZ0197** | **Extension Cable (Main P.C.B. - DVD-RAM Drive / 8 Pin)** | **New** |
| **RFKZ0214** | **Extension Cable (MainP.C.B. - Digital P.C.B. / 88 Pin)** | **New** |
| **RFKZ0216** | **Extension Cable (MainP.C.B. - Power P.C.B. / 23 Pin)** | **New** |

**NOTE:**
**Extension Cable RFKZ0214 has A/V Output Signal switches.**
**Output signals can be switched from MAIN PCB side or DIGITAL PCB side.**
**When check MAIN PCB, turn switches to MAIN PCB side.**
**When check DIGITAL PCB, turn switches to DIGITAL P.C.B. side.**


A/V Output signal Switches of RFKZ0214
AUDIO (L) SW
AUDIO (R) SW
VIDEO SW
MAIN PCB side
DIGITAL PCB side

# 18. Service Positions

**Note:**
**For description of the disassembling procedure, see the section 16.**

## 18.1. Checking and Repairing of Audio P.C.B.

**1. Top Cabinet**

Remove 2 screws of both rear side panel

Remove of both L & R side panel

Remove 1 screw of rear panel

Remove Top Cabinet

**2. Audio P.C.B.**

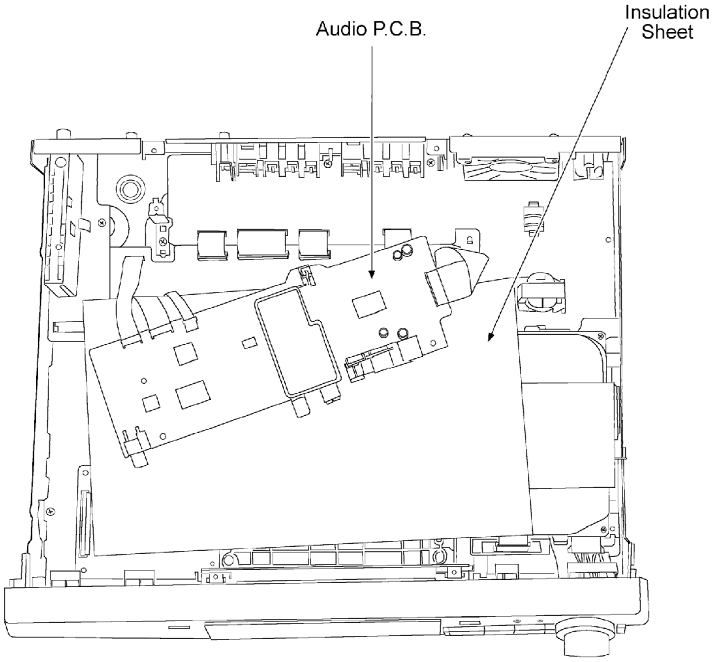
Remove 4 screws of rear panel

Remove 3 screws on the foil side of Audio P.C.B.

Flip over the Audio P.C.B.

Put Audio P.C.B. on insulation sheet so that it's foil side face top

Attach the FFCs (CN402 & CN801)



## 18.2. Checking and Repairing of Terminal P.C.B.

**1. Top Cabinet**

- Remove 2 screws of both rear side panel
- Remove of both L & R side panel
- Remove 1 screw of rear panel
- Remove Top Cabinet

**2. Rear Panel**

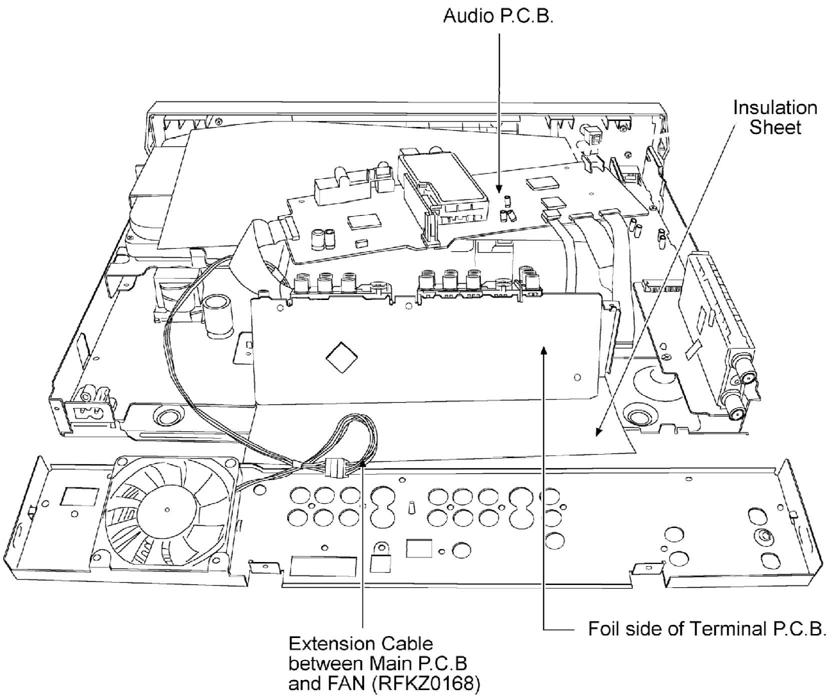
- Remove 14 screws of rear panel
- Remove the rear Panel
- Disconnect the Fan connector (P7503)

**3. Audio P.C.B.**

- Remove 3 screws on the foil side of Audio P.C.B.
- Detach the FFCs (CN402 & CN801)
- Flip over the Audio P.C.B.

**4. Terminal P.C.B.**

- Remove 2 screws
- Unlock 3 Locking Tabs
- Flip over the Terminal P.C.B. as below shown
- Put Audio and Terminal P.C.B. on insulation sheet so that it's foil side face top
- Attach the FFCs (CN402 & CN801)
- Connect Extension Cable between Main P.C.B. and Fan (RFKZ0168)


Audio P.C.B.
Insulation Sheet
Extension Cable between Main P.C.B and FAN (RFKZ0168)
Foil side of Terminal P.C.B.

## 18.3. Checking and Repairing of Digital P.C.B.

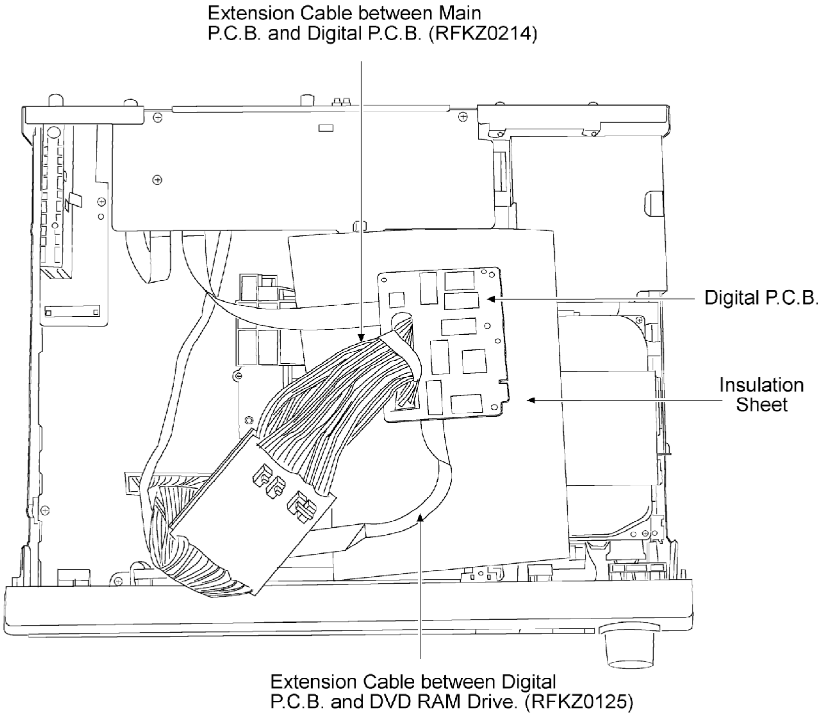
**1. Top Cabinet**

- Remove 2 screws of both rear side panel
- Remove of both L & R side panel
- Remove 1 screw of rear panel
- Remove Top Cabinet

**2. Digital P.C.B.**

- Remove 2 screws on side
- Detach the FFCs to DVD RAM Drive and Audio P.C.B.
- Unlock the Rocking Spacer
- Flip up Digital to remove it
- Put Digital P.C.B. on insulation sheet
- Connect Extension Cable between Main P.C.B. and Digital P.C.B. (RFKZ0214), and between Digital P.C.B. and DVD RAM Drive. (RFKZ0125)

**Caution:**
Red wire in the extension cable should be connected to (1) pin.


Extension Cable between Main P.C.B. and Digital P.C.B. (RFKZ0214)
Digital P.C.B.
Insulation Sheet
Extension Cable between Digital P.C.B. and DVD RAM Drive. (RFKZ0125)

## 18.4. Checking and Repairing of Power P.C.B.

**1. Top Cabinet**

- Remove 2 screws of both rear side panel
- Remove of both L & R side panel
- Remove 1 screw of rear panel
- Remove Top Cabinet

↓

**2. Front Panel**

- Unlock 2 Locking Catches on side
- Unlock 3 Locking Tabs in bottom
- Detach the connector (CN601) and FFC (CN1104)
- Remove the Front Panel

↓

**3. HDD & HDD Bracket & Primary Shield Cover**

- Remove 4 screws on the HDD Bracket
- Detach 2 connectors
- Flip over the Bracket with HDD
- Remove 2 screws on the Primary Shield Cover
- Remove the Primary Shield Cover

↓

**4. Power P.C.B.**

- Remove 1 screw for AC Inlet fixing
- Detach 2 connectors (PS1502 & PS1503) to Main P.C.B.
- Unlock 3 Locking Tabs
- Remove Power P.C.B.

↓

Attach the Front Panel

↓

Attach the FFC (PS1104) to Panel_R P.C.B., and connector (CN601) to Audio P.C.B.

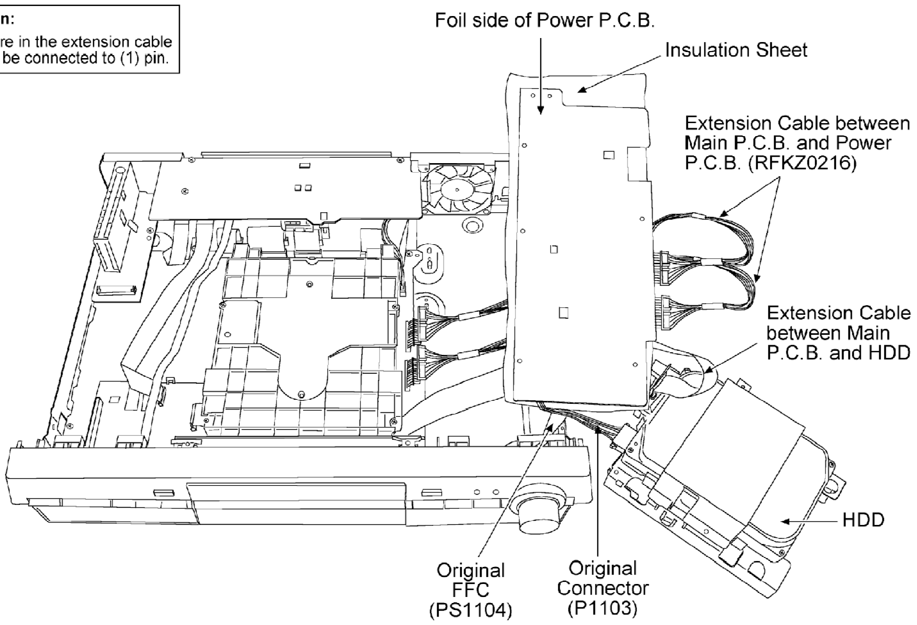
↓

Put Power P.C.B. on insulation sheet so that it's foil side face top

↓

Connect 2 Extension Cable between Main P.C.B. and Power P.C.B. (RFKZ0216), and between Main P.C.B. and HDD, and between Power P.C.B. to Panel_R P.C.B. (Original FFC), and between Power P.C.B. to HDD (Original connector)

**Caution:**
Red wire in the extension cable should be connected to (1) pin.


Foil side of Power P.C.B.
Insulation Sheet
Extension Cable between Main P.C.B. and Power P.C.B. (RFKZ0216)
Extension Cable between Main P.C.B. and HDD
HDD
Original FFC (PS1104)
Original Connector (P1103)

## 18.5. Checking and Repairing of DVD RAM Drive

**1. Top Cabinet**

- Remove 2 screws of both rear side panel
- Remove of both L & R side panel
- Remove 1 screw of rear panel
- Remove Top Cabinet

↓

**2. Front Panel**

- Unlock 2 Locking Catches on side
- Unlock 3 Locking Tabs in bottom
- Detach the connector (CN601) and FFC (CN1104)
- Remove the Front Panel

↓

**3. HDD & HDD Bracket & Primary Shield Cover**

- Remove 4 screws on the HDD Bracket
- Detach 2 connectors
- Flip over the Bracket with HDD
- Remove 2 screws on the Primary Shield Cover
- Remove the Primary Shield Cover

↓

**4. DVD RAM Drive**

- Remove 3 screws fixing DVD RAM Drive
- Remove FFC to Digital P.C.B.
- Lift up DVD RAM Drive to remove it

↓

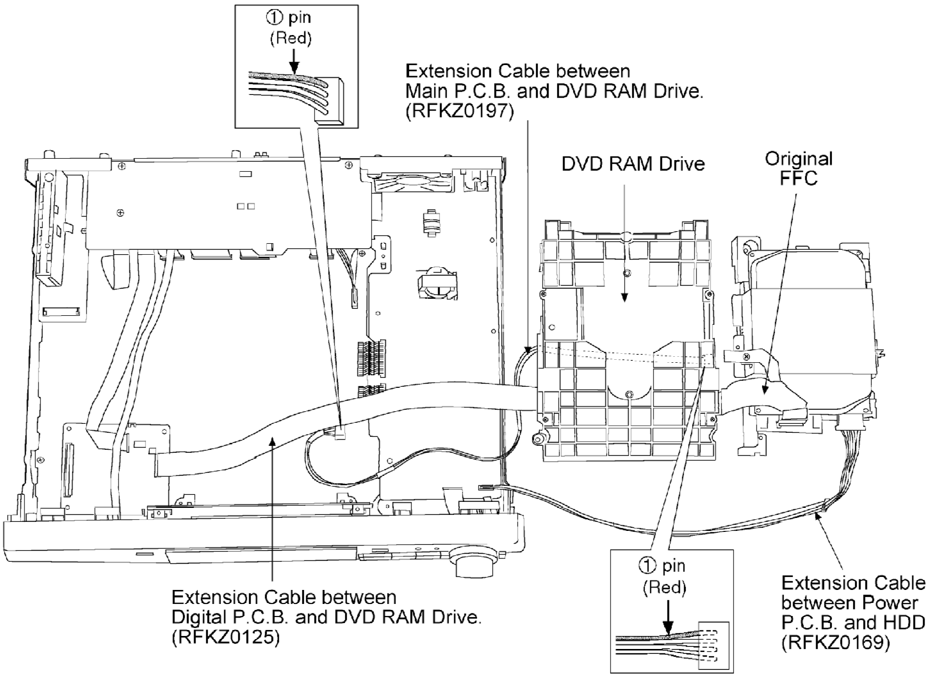
- Attach the Front Panel

↓

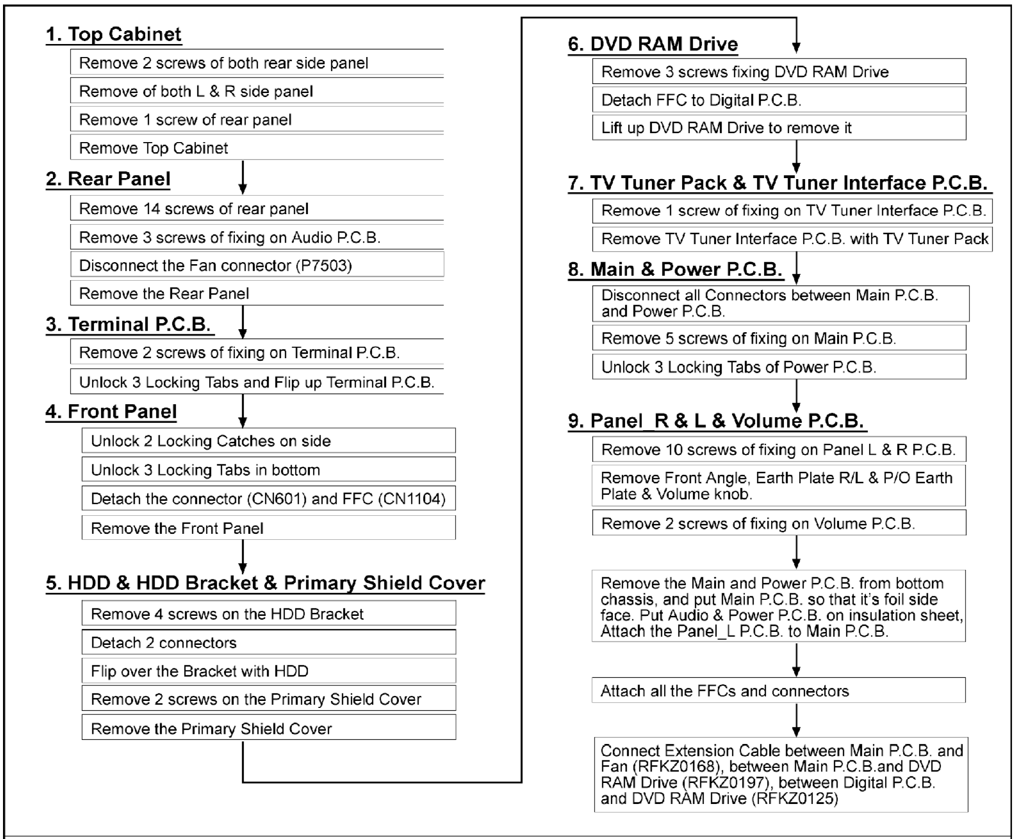
- Attach the FFC (PS1104) to Panel_R P.C.B., and connector (CN601) to Audio P.C.B.

↓

- Connect 2 Extension Cable between Main P.C.B. and DVD RAM Drive (RFKZ0197), and between Digital P.C.B. and DVD RAM Drive (RFKZ0125), and between Power P.C.B. (RFKZ0169), and between DVD RAM Drive and HDD (Original FFC)


① pin
(Red)
Extension Cable between
Main P.C.B. and DVD RAM Drive.
(RFKZ0197)
DVD RAM Drive
Original
FFC
① pin
(Red)
Extension Cable between
Digital P.C.B. and DVD RAM Drive.
(RFKZ0125)
Extension Cable
between Power
P.C.B. and HDD
(RFKZ0169)

## 18.6. Checking and Repairing of Main P.C.B.



**1. Top Cabinet**
- Remove 2 screws of both rear side panel
- Remove of both L & R side panel
- Remove 1 screw of rear panel
- Remove Top Cabinet

**2. Rear Panel**
- Remove 14 screws of rear panel
- Remove 3 screws of fixing on Audio P.C.B.
- Disconnect the Fan connector (P7503)
- Remove the Rear Panel

**3. Terminal P.C.B.**
- Remove 2 screws of fixing on Terminal P.C.B.
- Unlock 3 Locking Tabs and Flip up Terminal P.C.B.

**4. Front Panel**
- Unlock 2 Locking Catches on side
- Unlock 3 Locking Tabs in bottom
- Detach the connector (CN601) and FFC (CN1104)
- Remove the Front Panel

**5. HDD & HDD Bracket & Primary Shield Cover**
- Remove 4 screws on the HDD Bracket
- Detach 2 connectors
- Flip over the Bracket with HDD
- Remove 2 screws on the Primary Shield Cover
- Remove the Primary Shield Cover

**6. DVD RAM Drive**
- Remove 3 screws fixing DVD RAM Drive
- Detach FFC to Digital P.C.B.
- Lift up DVD RAM Drive to remove it

**7. TV Tuner Pack & TV Tuner Interface P.C.B.**
- Remove 1 screw of fixing on TV Tuner Interface P.C.B.
- Remove TV Tuner Interface P.C.B. with TV Tuner Pack

**8. Main & Power P.C.B.**
- Disconnect all Connectors between Main P.C.B. and Power P.C.B.
- Remove 5 screws of fixing on Main P.C.B.
- Unlock 3 Locking Tabs of Power P.C.B.

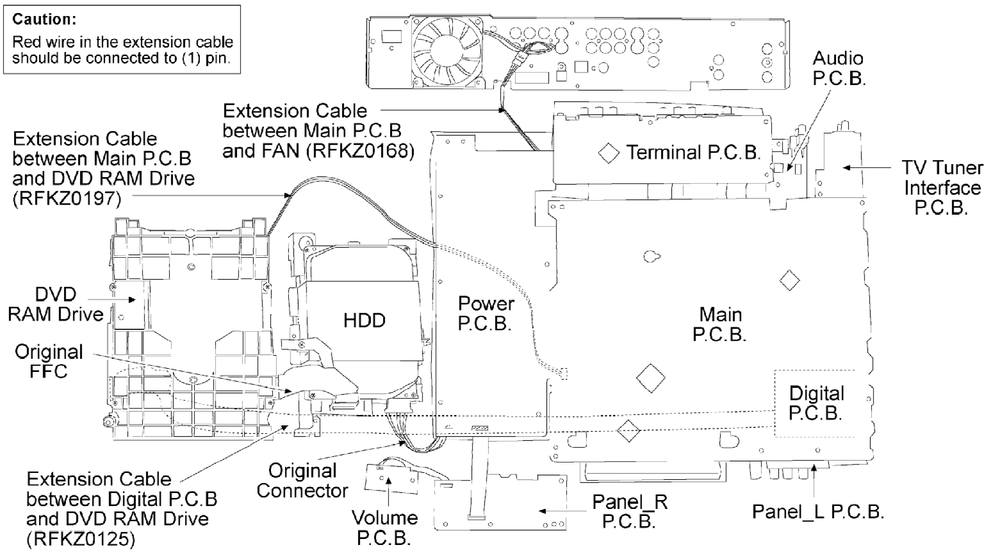
**9. Panel R & L & Volume P.C.B.**
- Remove 10 screws of fixing on Panel L & R P.C.B.
- Remove Front Angle, Earth Plate R/L & P/O Earth Plate & Volume knob.
- Remove 2 screws of fixing on Volume P.C.B.

Remove the Main and Power P.C.B. from bottom chassis, and put Main P.C.B. so that it's foil side face. Put Audio & Power P.C.B. on insulation sheet, Attach the Panel_L P.C.B. to Main P.C.B.

Attach all the FFCs and connectors

Connect Extension Cable between Main P.C.B. and Fan (RFKZ0168), between Main P.C.B.and DVD RAM Drive (RFKZ0197), between Digital P.C.B. and DVD RAM Drive (RFKZ0125)

**Caution:**
Red wire in the extension cable should be connected to (1) pin.


Audio P.C.B.
Extension Cable between Main P.C.B and FAN (RFKZ0168)
Extension Cable between Main P.C.B and DVD RAM Drive (RFKZ0197)
Terminal P.C.B.
TV Tuner Interface P.C.B.
DVD RAM Drive
HDD
Power P.C.B.
Main P.C.B.
Original FFC
Digital P.C.B.
Extension Cable between Digital P.C.B and DVD RAM Drive (RFKZ0125)
Original Connector
Volume P.C.B.
Panel_R P.C.B.
Panel_L P.C.B.

# 19. Adjustment Procedures

## 19.1. After replacing the DVD RAM Drive with new one

After replacing of RAM drive unit, TEST mode is not necessary. Please confirm operation for DVD RAM Drive

**Caution:**

**In this case, all parameters are initialized.**

## 19.2. When the unit does not operate normally after replacing the

## Timer Microprocessor with new one

**in order to transmit the**

| Step | Operation | Descriptions |
|---|---|---|
| 1 | While power is ON, short IC7503-1 pin (RESET) and the GND. | "RESET (L)" is transmitted to th terminal of Timer Microprocesso 80 pin), then the unit operates n |

# 20. Standard Inspection Specifications after Making Repairs

**After making repairs, we recommend performing the following inspection, to check normal operation.**

| No. | Procedure | Item to Check |
|---|---|---|
| 1 | Turn on the power, and confirm items pointed out. | Items pointed out should reappear. |
| 2 | Insert RAM disc. | The Panasonic RAM disc should be reco |
| 3 | Enter the EE (TU IN / AV IN - AV OUT) mode. | No abnormality should be seen in the pic sound or operation. |
| 4 | Perform auto recording and playback for one minute using the RAM disc. | No abnormality should be seen in the pic sound or operation. |
| 5 | Model with the HDD : Perform auto recording and playback for one minute using the HDD | No abnormality should be seen in the pic sound or operation.<br>*Panasonic DVD-R disc should be used w recording and playback. |
| 6 | If a problem is caused by a VCD, DVD-R, DVD-Video, Audio-CD, or MP3, playback the test disc. | No abnormality should be seen in the pic sound or operation. |
| 7 | After checking and making repairs, upgrade the firmware to the latest version. | Make sure that [FIRM_SUCCESS] appear FL displays.<br>*[UNSUPPORT] display means the unit is updated to newest same version. Then v up is not necessary. |
| 8 | Transfer [9][9] in the service mode setting, and initialize the service settings (return various settings and error information to their default values. The laser time is not included in this initialization). | Make sure that [CLR SERV] appears in th display.<br>After checking it, turn the power off. |
| 9 | When replacing of RAM drive, transfer [9] [5] in the service mode setting to delete Laser used time. | Make sure that [CLR LASER] appears in t display.<br>After that, turn power off. |

**Use the following checklist to establish the judgement criteria for the picture and sound.**

| Item | Contents | Check | Item | Contents |
|---|---|---|---|---|
| Picture | Block noise | | Sound | Distorted sound |
| | Crosscut noise | | | Noise (static, background noise, etc.) |
| | Dot noise | | | The sound level is too low. |
| | Picture disruption | | | The sound level is too high. |
| | Not bright enough | | | The sound level changes. |
| | Too bright | | | |
| | Flickering color | | | |
| | Color fading | | | |

# 21. Voltage and Waveform Chart

**Note)**

**- Indicated voltage values are the standard values for the unit measured by the DC electronic circuit tester (high-impedance) with the chassis taken as standard.**
**Therefore, there may exist some errors in the voltage values, depending on the internal impedance of the DC circuit tester.**

## 21.1. Power P.C.B.

## 21.2. Main P.C.B.

## 21.3. Front (L) P.C.B. / Front (R) P.C.B.

## 21.4. P9001 Connector (Digital P.C.B.)

## 21.5. Terminal P.C.B.

## 21.6. Waveform Chart

# 22. Abbreviations

| INITIAL/LOGO | | ABBREVIATIONS |
|---|---|---|
| A | A0~UP | ADDRESS |
| | ACLK | AUDIO CLOCK |
| | AD0~UP | ADDRESS BUS |
| | ADATA | AUDIO PES PACKET DATA |
| | ALE | ADDRESS LATCH ENABLE |
| | AMUTE | AUDIO MUTE |
| | AREQ | AUDIO PES PACKET REQUEST |
| | ARF | AUDIO RF |
| | ASI | SERVO AMP INVERTED INPUT |
| | ASO | SERVOAMPOUTPUT |
| | ASYNC | AUDIO WORD DISTINCTION SYNC |
| B | BCK | BIT CLOCK (PCM) |
| | BCKIN | BIT CLOCK INPUT |
| | BDO | BLACK DROP OUT |
| | BLKCK | SUB CODE BLOCK CLOCK |
| | BOTTOM | CAP. FOR BOTTOM HOLD |
| | BYP | BYPATH |
| | BYTCK | BYTE CLOCK |
| C | CAV | CONSTANT ANGULAR VELOCITY |
| | CBDO | CAP. BLACK DROP OUT |
| | CD | COMPACT DISC |
| | CDSCK | CD SERIAL DATA CLOCK |
| | CDSRDATA | CD SERIAL DATA |
| | CDRF | CD RF (EFM) SIGNAL |
| | CDV | COMPACT DISC-VIDEO |
| | CHNDATA | CHANNEL DATA |
| | CKSL | SYSTEMCLOCKSELECT |
| | CLV | CONSTANT LINEAR VELOCITY |
| | COFTR | CAP. OFF TRACK |
| | CPA | CPU ADDRESS |
| | CPCS | CPU CHIP SELECT |
| | CPDT | CPU DATA |
| | CPUADR | CPU ADDRESS LATCH |
| | CPUADT | CPU ADDRESS DATA BUS |
| | CPUIRQ | CPU INTERRUPT REQUEST |
| | CPRD | CPU READ ENABLE |
| | CPWR | CPU WRITE ENABLE |
| | CS | CHIPSELECT |
| | CSYNCIN | COMPOSITESYNC IN |
| | CSYNCOUT | COMPOSITE SYNC OUT |

| INITIAL/LOGO | | ABBREVIATIONS |
|---|---|---|
| D | DACCK | D/A CONVERTER CLOCK |
| | DEEMP | DEEMPHASIS BIT ON/OFF |
| | DEMPH | DEEMPHASIS SWITCHING |
| | DIG0~UP | FL DIGIT OUTPUT |
| | DIN | DATA INPUT |
| | DMSRCK | DM SERIAL DATA READ CLOCK |
| | DMUTE | DIGITAL MUTE CONTROL |
| | DO | DROPOUT |
| | DOUT0~UP | DATAOUTPUT |
| | DRF | DATA SLICE RF (BIAS) |
| | DRPOUT | DROP OUT SIGNAL |
| | DREQ | DATA REQUEST |
| | DRESP | DATA RESPONSE |
| | DSC | DIGITAL SERVO CONTROLLER |
| | DSLF | DATA SLICE LOOP FILTER |
| | DVD | DIGITAL VIDEO DISC |

| INITIAL/LOGO | | ABBREVIATIONS |
|---|---|---|
| E | EC | ERROR TORQUE CONTROL |
| | ECR | ERROR TORQUE CONTROL REFERENCE |
| | ENCSEL | ENCODER SELECT |
| | ETMCLK | EXTERNAL M CLOCK (81MHz/ 40.5MHz) |
| | ETSCLK | EXTERNAL S CLOCK (54MHz) |
| F | FBAL | FOCUS BALANCE |
| | FCLK | FRAME CLOCK |
| | FE | FOCUS ERROR |
| | FFI | FOCUS ERROR AMP INVERTED INPUT |
| | FEO | FOCUS ERROR AMP OUTPUT |
| | FG | FREQUENCY GENERATOR |
| | FSC | FREQUENCY SUB CARRIER |
| | FSCK | FS (384 OVER SAMPLING)CLOCK |
| G | GND | COMMON GROUNDING (EARTH) |
| H | HA0~UP | HOST ADDRESS |
| | HD0~UP | HOST DATA |
| | HINT | HOST INTERRUPT |
| | HRXW | HOST READ/WRITE |

| INITIAL/LOGO | | ABBREVIATIONS |
|---|---|---|
| I | IECOUT | IEC958 FORMAT DATA OUTPUT |
| | IPFRAG | INTERPOLATION FLAG |
| | IREF | I (CURRENT) REFERENCE |
| | ISEL | INTERFACE MODE SELECT |
| L | LDON | LASER DIODE CONTROL |
| | LPC | LASER POWER CONTROL |
| | LRCK | L CH/R CH DISTINCTION CLOCK |
| M | MA0~UP | MEMORY ADDRESS |
| | MCK | MEMORY CLOCK |
| | MCKI | MEMORY CLOCK INPUT |
| | MCLK | MEMORY SERIAL COMMAND CLOCK |
| | MDATA | MEMORY SERIAL COMMAND DATA |
| | MDQ0~UP | MEMORY DATA INPUT/OUTPUT |
| | MDQM | MEMORY DATA I/O MASK |
| | MLD | MEMORYSERIALCOMMAND LOAD |
| | MPEG | MOVING PICTURE EXPERTS GROUP |
| O | ODC | OPTICAL DISC CONTROLLER |
| | OFTR | OFF TRACKING |
| | OSCI | OSCILLATOR INPUT |
| | OSCO | OSCILLATOR OUTPUT |
| | OSD | ON SCREEN DISPLAY |
| P | P1~UP | PORT |
| | PCD | CD TRACKING PHASE DIFFERENCE |
| | PCK | PLL CLOCK |
| | PDVD | DVD TRACKING PHASE DIFFERENCE |
| | PEAK | CAP. FOR PEAK HOLD |
| | PLLCLK / | CHANNEL PLL CLOCK |
| | PLLOK | PLL LOCK |
| | PWMCTL | PWM OUTPUT CONTROL |
| | PWMDA | PULSE WAVEMOTOR DRIVEA |
| | PWMOA, B | PULSE WAVE MOTOR OUT A, B |

| INITIAL/LOGO | | ABBREVIATIONS |
|---|---|---|
| R | RE | READ ENABLE |
| | RFENV | RF ENVELOPE |
| | RFO | RF PHASE DIFFERENCE OUTPUT |
| | RS | (CD-ROM) REGISTER SELECT |
| | RSEL | RF POLARITY SELECT |
| | RST | RESET |
| | RSV | RESERVE |
| S | SBI0, 1 | SERIAL DATA INPUT |
| | SBO0 | SERIAL DATA OUTPUT |
| | SBT0, 1 | SERIAL CLOCK |
| | SCK | SERIAL DATA CLOCK |
| | SCKR | AUDIO SERIAL CLOCK RECEIVER |
| | SCL | SERIAL CLOCK |
| | SCLK | SERIAL CLOCK |
| | SDA | SERIAL DATA |
| | SEG0~UP | FL SEGMENT OUTPUT |
| | SELCLK | SELECTCLOCK |
| | SEN | SERIALPORT ENABLE |
| | SIN1, 2 | SERIAL DATA IN |
| | SOUT1, 2 | SERIAL DATA OUT |
| | SPDI | SERIAL PORT DATA INPUT |
| | SPDO | SERIAL PORT DATA OUTPUT |
| | SPEN | SERIAL PORT R/W ENABLE |
| | SPRCLK | SERIAL PORT READ CLOCK |
| | SPWCLK | SERIAL PORT WRITE CLOCK |
| | SQCK | SUB CODE Q CLOCK |
| | SQCX | SUBCODEQ DATA READ CLOCK |
| | SRDATA | SERIAL DATA |
| | SRMADR | SRAM ADDRESS BUS |
| | SRMDT0~7 | SRAM DATA BUS 0~7 |
| | SS | START/STOP |
| | STAT | STATUS |
| | STCLK | STREAM DATA CLOCK |
| | STD0~UP | STREAM DATA |
| | STENABLE | STREAM DATA INPUT ENABLE |
| | STSEL | STREAM DATA POLARITY SELECT |
| | STVALID | STREAMDATAVALIDITY |
| | SUBC | SUB CODE SERIAL |
| | SBCK | SUB CODE CLOCK |
| | SUBQ | SUB CODE Q DATA |
| | SYSCLK | |

| | | |
|---|---|---|
| | | SYSTEM CLOCK |

| INITIAL/LOGO | | ABBREVIATIONS |
|---|---|---|
| T | TE | TRACKING ERROR |
| | TIBAL | BALANCE CONTROL |
| | TID | BALANCE OUTPUT 1 |
| | TIN | BALANCE INPUT |
| | TIP | BALANCE INPUT |
| | TIS | BALANCE OUTPUT 2 |
| | TPSN | OP AMP INPUT |
| | TPSO | OP AMP OUTPUT |
| | TPSP | OP AMP INVERTED INPUT |
| | TRCRS | TRACKCROSSSIGNAL |
| | TRON | TRACKING ON |
| | TRSON | TRAVERSE SERVO ON |

| INITIAL/LOGO | | ABBREVIATIONS |
|---|---|---|
| V | VBLANK | V BLANKING |
| | VCC | COLLECTOR POWER SUPPLY VOLTAGE |
| | VCDCONT | VIDEO CD CONTROL (TRACKING BALANCE) |
| | VDD | DRAIN POWER SUPPLY VOLTAGE |
| | VFB | VIDEO FEED BACK |
| | VREF | VOLTAGE REFERENCE |
| | VSS | SOURCE POWERSUPPLYVOLTAGE |
| W | WAIT | BUS CYCLE WAIT |
| | WDCK | WORD CLOCK |
| | WEH | WRITE ENABLE HIGH |
| | WSR | WORD SELECT RECEIVER |

| INITIAL/LOGO | | ABBREVIATIONS |
|---|---|---|
| X | X | X' TAL |
| | XALE | X ADDRESS LATCH ENABLE |
| | XAREQ | X AUDIO DATA REQUEST |
| | XCDROM | X CD ROM CHIP SELECT |
| | XCS | X CHIP SELECT |
| | XCSYNC | X COMPOSITE SYNC |
| | XDS | X DATA STROBE |
| | XHSYNCO | X HORIZONTAL SYNC OUTPUT |
| | XHINT | XHINTERRUPTREQUEST |
| | XI | X' TAL OSCILLATOR INPUT |
| | XINT | X INTERRUPT |
| | XMW | X MEMORY WRITE ENABLE |
| | XO | X' TAL OSCILLATOR OUTPUT |
| | XRE | X READ ENABLE |
| | XSRMCE | X SRAM CHIP ENABLE |
| | XSRMOE | X SRAM OUTPUT ENABLE |
| | XSRMWE | X SRAM WRITE ENABLE |
| | XVCS | XV-DEC CHIPSELECT |
| | XVDS | X V-DEC CONTROL BUS STROBE |
| | XVSYNCO | X VERTICAL SYNC OUTPUT |

# 23. Block Diagram

# 24. Notes of Schematic Diagram

**(All schematic diagrams may be modified at any time with the development of new technology)**
**Note :**

### S7003

**Rec switch**

### S7004

**CH Down switch**

### S7005

**Power switch**

### S7006

**CH Up switch**

### S7007

**Time Slip switch**

### S7802

**Stop switch**

**S7803**
**Skip-R switch**

**S7804**
**Play switch**

**S7805**
**Select switch**

**S7808**
**Open/Close switch**

**S7809**
**Skip-F switch**

**VR7801**
**Volume VR**

**- The voltage value and waveforms are the reference voltage of this unit measured by DC electronic voltmeter (high impedance) and oscilloscope on the basis of chassis. Accordingly, there may arise some error in voltage values and waveformsdepending upon the internal impedance of the tester or the measuring unit.**

**No mark**
**: Playback**

**<< >>**
**: Rec**

**(( ))**
**: CD**

**< >**
**: FM**

**( )**
**: AM**

**- Importance safety notice :**
**Components identified by ⚠ mark have special characteristics important for safety. Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used. Whenreplacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.**

**Caution !**

**IC, LSI and VLSI are sensitive to static electricity.**
**Secondary trouble can be prevented by taking care during repair.**

- **Cover the parts boxes made of plastics with aluminium foil.**
- **Put a conductive mat on the work table.**
- **Ground the soldering iron.**
- **Do not touch the pins of IC, LSI or VLSI with fingers directly.**

**CAUTION:** FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH SAME TYPE F1 1.6A, 125V FUSE.

RISK OF FIRE-REPLACE FUSE AS MARKED.

**FUSE CAUTION**

These symbols located near the fuse indicates that the fuse used is a fast operating type. For continued protection against fire harzard, replace with the same type fuse. For fuse rating, refer to the marking adjacent to the symbol.

Ce symbole indique que le fusible utilisé est à rapide. Pour une protection permanente, n' utiliser que des fusibles de même type. Ce dernier est indiqué là qù le présent symbole est apposé.

# 25. Schematic Diagram

## 25.1. DIGITAL MODULE:GLUE NET (GN) CIRCUIT

## 25.2. DIGITAL MODULE:AV ENCODER (EN) CIRCUIT

## 25.3. DIGITAL MODULE:RTSC (TR) CIRCUIT

## 25.4. DIGITAL MODULE:DECODER/MAIN CPU (MC) CIRCUIT

## 25.5. DIGITAL MODULE:AUDIO I/O (AI) CIRCUIT

## 25.6. MAIN 1 CIRCUIT

## 25.7. MAIN 2 CIRCUIT

## 25.8. AUDIO CIRCUIT and TUNER EXTENT CIRCUIT

## 25.9. POWER CIRCUIT

## 25.10. PANEL_L CIRCUIT

## 25.11. PANEL_R CIRCUIT, TV TUNER INTERFACE CIRCUIT and

### VOLUME CIRCUIT

### 25.12. TERMINAL CIRCUIT

# 26. Printed Circuit Board

## 26.1. Digital P.C.B.

### 26.1.1. Digital P.C.B. Address Information

## 26.2. Main P.C.B.

## 26.3. Audio P.C.B.

## 26.4. Power P.C.B.

## 26.5. Panel_L P.C.B and Panel_R P.C.B..

## 26.6. Terminal P.C.B., TV Tuner Interface P.C.B, Volume P.C.B. and FM/AM Tuner Extend P.C.B.

# 27. Wiring Connection Diagram

# 28. Illustration of IC’s, Transistors and Diodes

# 29. Terminal Function of IC's

## 29.1. IC1203 (C2HBZH000002) Microprocessor

| Pin NO. | Terminal Name | I/O | Function |
|---|---|---|---|
| 1 | /RST | I | Reset signal input terminal / (L: reset, H: normal operation) |
| 2 | MIMD | I | Mode select input for MCU interface (L: serial, H: I2 C bus) |
| 3 | /MICS | I | Chip select input for MCU interface |
| 4 | /MILP | I | Latch pulse input for MCU interface |
| 5 | MIDIO | I/O | Data input and output for MCU interface |
| 6 | /MICK | I | Clock input for MCU interface |
| 7 | MIACK | O | Acknowledge output for MCU interface |
| 8 | FI0 | I | Flag input 0 |
| 9 | FI1 | I | Flag input 1 |
| 10 | FI2 | I | Flag input 2 |
| 11 | FI3 | I | Flag input 3 |
| 12 | IRQ | I | Interruption input |
| 13 | Vss | - | Digital ground |
| 14 | LRCKA | I | LR clock input - A for audio interface |
| 15 | BCKA | I | Bit clock input - A for audio interface |
| 16 | SDO0 | O | Data output - 0 for audio interface |
| 17 | SDO1 | O | Data output - 1 for audio interface |
| 18 | SDO2 | O | Data output - 2 for audio interface |
| 19 | SDO3 | O | Data output - 3 for audio interface |
| 20 | LRCKB | I | LR clock input - B for audio interface |
| 21 | BCKB | I | Bit clock input - B for audio interface |
| 22 | SDI0 | I | Data input - 0 for audio interface |
| 23 | SDI1 | I | Data input - 1 for audio interface |
| 24 | VDD | - | Digital power supply |

| Pin NO. | Terminal Name | I/O | Function |
|---|---|---|---|
| 25 | LRCKOA | O | LR clock output - A for audio interface |
| 26 | BCKOA | O | Bit clock output - A for audio interface |
| 27 | /TEST0 | I | Test input - 0 / (L: test, H: normal operation) |
| 28 | /TEST1 | I | Test input - 1 / (L: test, H: normal operation) |
| 29 | LRCKOB | O | LR clock output - B for audio interface |
| 30 | BCKOB | O | Bit clock output - B for audio interface |
| 31 | TXO | O | SPDIF output |
| 32 | /TEST2 | I | Test input - 2 / (L: test, H: normal operation) |
| 33 | /TEST3 | I | Test input - 3 / L: test, H: normal operation) |
| 34 | RX | I | SPDIF input |
| 35 | VSS | - | Digital ground |
| 36 | /TSTSUB0 | I | Test sub input - 0 / (L: test, H: normal operation) |
| 37 | FCONT | O | Frequency control output for VCD circuit |
| 38 | /TSTSUB1 | I | Test sub input - 1 / (L: test, H: normal operation) |
| 39 | /TSTSUB2 | I | Test sub input - 2 / (L: test, H: normal operation) |
| 40 | PDO | O | Phase detect signal output |
| 41 | VDDA | - | Analog power supply |
| 42 | PLON | I | Clock selection input / (L: external clock, H: VCO clock) |
| 43 | AMPI | I | Amplifier input for Low pass filter |
| 44 | AMPO | O | Amplifier output for Low pass filter |
| 45 | CKI | I | External clock input |
| 46 | VSSA | - | Analog ground |
| 47 | CKO | O | DIR clock output |
| 48 | LOCK | O | VCO lock output |
| 49 | VSS | - | Digital ground |
| 50 | /WR | O | Write signal output for external SRAM |

| Pin NO. | Terminal Name | I/O | Function |
|---|---|---|---|
| 51 | /OE | O | Enable signal output for external SRAM |
| 52 | /CE | O | Chip enable signal output for external SRAM |
| 53 | $V_{DD}$ | - | Digital power supply |
| 54 | IO7 | I/O | Data I/O - 7 for external SRAM |
| 55 | IO6 | I/O | Data I/O - 6 for external SRAM |
| 56 | IO5 | I/O | Data I/O - 5 for external SRAM |
| 57 | IO4 | I/O | Data I/O - 4 for external SRAM |
| 58 | IO3 | I/O | Data I/O - 3 for external SRAM |
| 59 | IO2 | I/O | Data I/O - 2 for external SRAM |
| 60 | IO1 | I/O | Data I/O - 1 for external SRAM |
| 61 | IO0 | I/O | Data I/O - 0 for external SRAM |
| 62 | $V_{SS}$ | - | Digital ground |
| 63 | AD0 | O | Address output - 0 for external SRAM |
| 64 | AD1 | O | Address output - 1 for external SRAM |
| 65 | AD2 | O | Address output - 2 for external SRAM |
| 66 | AD3 | O | Address output - 3 for external SRAM |
| 67 | AD4 | O | Address output - 4 for external SRAM |
| 68 | AD5 | O | Address output - 5 for external SRAM |
| 69 | AD6 | O | Address output - 6 for external SRAM |
| 70 | AD7 | O | Address output - 7 for external SRAM |
| 71 | $V_{DD}$ | - | Digital power supply |
| 72 | AD8 | O | Address output - 8 for external SRAM |
| 73 | AD9 | O | Address output - 9 for external SRAM |

| Pin NO. | Terminal Name | I/O | Function |
|---|---|---|---|
| 74 | AD10 | O | Address output - 10 for external SRAM |
| 75 | AD11 | O | Address output - 11 for external SRAM |
| 76 | AD12 | O | Address output - 12 for external SRAM |
| 77 | AD13 | O | Address output - 13 for external SRAM |
| 78 | AD14 | O | Address output - 14 for external SRAM |
| 79 | AD15 | O | Address output - 15 for external SRAM |
| 80 | AD16 | O | Address output - 16 for external SRAM |
| 81 | VSS | - | Digital ground |
| 82 | PO0 | O | General output port - 0 |
| 83 | PO1 | O | General output port - 1 |
| 84 | PO2 | O | General output port - 2 |
| 85 | PO3 | O | General output port - 3 |
| 86 | PO4 | O | General output port - 4 |
| 87 | PO5 | O | General output port - 5 |
| 88 | PO6 | O | General output port - 6 |
| 89 | PO7 | O | General output port - 7 |
| 90 | VDDDL | - | Power supply for DLL circuit |
| 91 | LPFO | O | Low pass filter output for DLL circuit |
| 92 | DLON | I | DLCKS pin / “L” / “L” / “H” / “H” / DLON pin / “L” / “H” / “L” / “H” / DLLclock setting / SCKI input (DLL = off) / 4th times of XI clock / 3rd times of XI clock / 6th times of XI clock |
| 93 | DLCKS | I | DLCKS pin“L”“L”“H”“H”DLON pin“L”“H”“L”“H”DLL clock settingSCKI input(DLL = off)4th times of XI clock3rd times of XI clock6th times of XI clock |
| 94 | SCKO | O | ASP clock output |
| 95 | VSSDL | - | Ground for DLL circuit |

| Pin NO. | Terminal Name | I/O | Function |
|---|---|---|---|
| 96 | SCKI | I | External system clock input |
| 97 | VSSX | - | Ground for crystal oscillator |
| 98 | XO | O | Crystal oscillator output |
| 99 | XI | I | Crystal oscillator input |
| 100 | VDDX | - | Digital power supply |

## 29.2. IC4401 (C0FBBK000044) A/D Converters

| Pin NO. | Terminal Name | I/O | Function |
|---|---|---|---|
| 1 | MCLK | I | Master Clock Input Pin |
| 2 | BICK | I | Audio Serial Data Clock Pin |
| 3 | SDTI1 | I | DAC1 Audio Serial Data Input Pin |
| 4 | LRCK | I | L/R Clock Pin |
| 5 | RSTB | I | Reset Mode Pin |
| 6 | SMUTE | I | Soft Mute Pin in parallel mode / “H”: Enable, “L”: Disable |
|  | CSN | I | Chip Select Pin in serial 3 - wire mode |
|  | CAD0 | I | Chip Address Pin in serial 12C mode |
| 7 | ACKS | I | Auto Setting Mode Pin in parallel mode / “L”: Manual Setting Mode, / “H” : Auto Setting Mode |
|  | CCLK | I | Control Data Clock Pin in serial 3 - wire mode |
|  | SCL |  | Control Data Clock Pin in serial 12C mode |
| 8 | DIF0 | I | Audio Data Interface Format Pin in parallel mode |
|  | CDTI | I | Control Data Input Pin in serial 3 - wire mode |
|  | SDA | I/O | Control Data Pin in serial 12C mode |
| 9 | SDTI2 | I | DAC2 Audio Serial Data Input Pin |

| Pin NO. | Terminal Name | I/O | Function |
|---|---|---|---|
| **10** | **SDTI3** | **I** | **DAC3 Audio Serial Data Input Pin** |
| **11** | **SDTI4** | **I** | **DAC4 Audio Serial Data Input Pin** |
| **12** | **DIF1** | **I** | **Audio Data Interface Format Pin** |
| **13** | **DEM0** | **I** | **De-emphasis Filter Enable Pin** |
| **14** | **DVDD** | **-** | **Digital Power Supply Pin** |
| **15** | **DVSS** | **-** | **Digital Ground Pin** |
| **16** | **12C** | **I** | **Control Mode Select Pin in serial mode / “L”: 3-wire Serial, “H”: I2 C Bus** |
| | **DEM1** | **I** | **De-emphasis Filter Enable Pin in parallel mode** |
| **17** | **ROUT4** | **O** | **DAC4 Rch Analog Output Pin** |
| **18** | **LOUT4** | **O** | **DAC4 Rch Analog Output Pin** |
| **19** | **ROUT3** | **O** | **DAC3 Rch Analog Output Pin** |
| **20** | **LOUT3** | **O** | **DAC3 Rch Analog Output Pin** |
| **21** | **ROUT2** | **O** | **DAC2 Rch Analog Output Pin** |
| **22** | **LOUT2** | **O** | **DAC2 Rch Analog Output Pin** |
| **23** | **P/S** | **I** | **Parallel/Serial Select Pin (Internal Pull-up pin) / “L”: Serial control mode, / “H”: Parallel control mode** |
| **24** | **ROUT1** | **O** | **DAC1 Rch Analog Output Pin** |
| **25** | **LOUT1** | **O** | **DAC1 Lch Analog Output Pin** |
| **26** | **VCOM** | **O** | **Common Voltage Pin, AVDD/2** |
| **27** | **AVSS** | **-** | **Analog Ground Pin** |
| **28** | **AVDD** | **-** | **Analog Power Supply Pin** |
| **29** | **DZF2** | **O** | **Data Zero Input Detect Pin** |
| **30** | **DZF1** | **O** | **Data Zero Input Detect Pin** |

# 30. Parts Location and Replacement Parts List

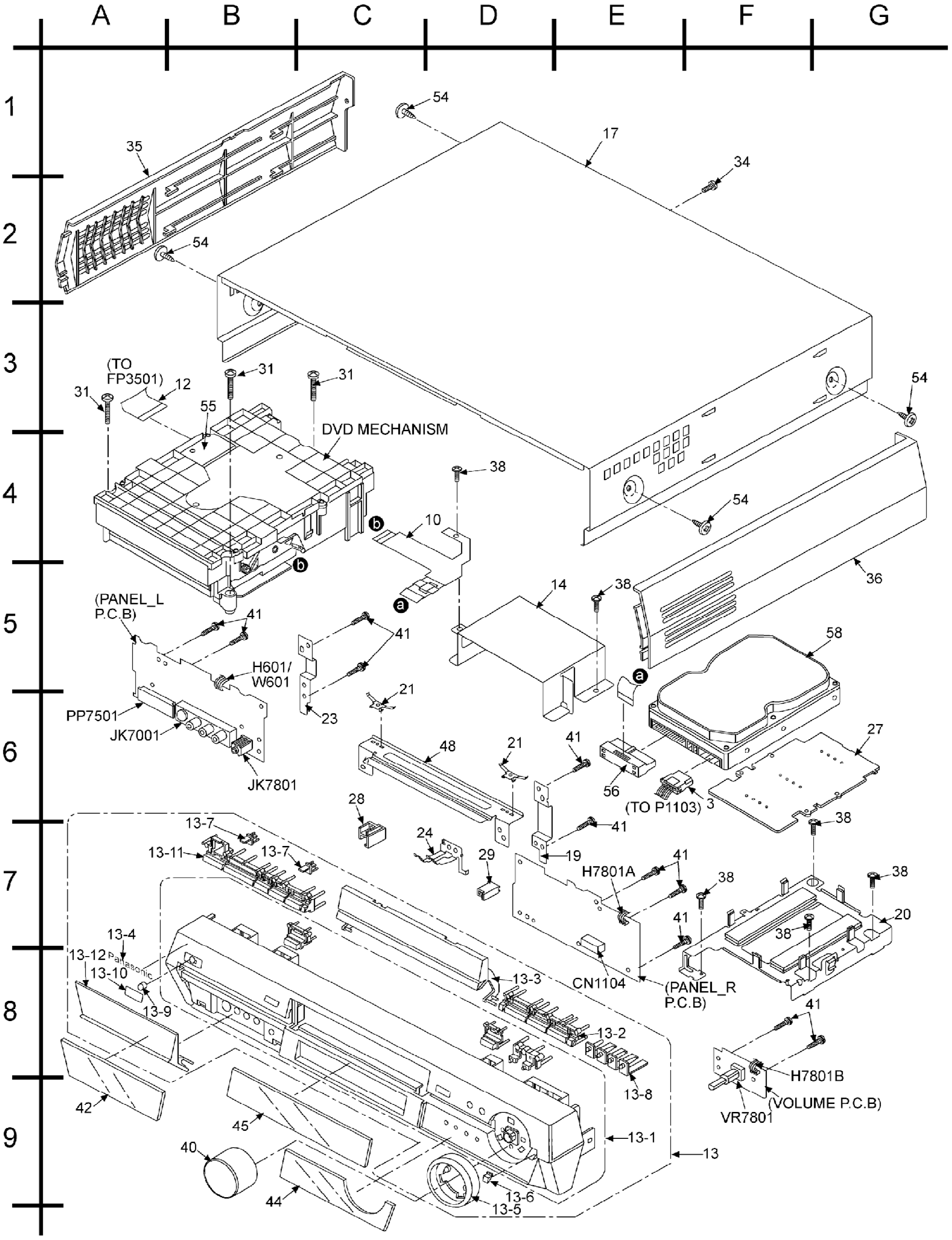
**Notes:**

- **Important safety notice:**
  **Components identified by ⚠ mark have special characteristics important for safety.**
  **Furthermore, special parts which have purposes of fire-retardent (resistors), high-quality sound (capacitors), low noise (resistors), etc are used.**
  **When replacing any of these components, be sure to use only manufacturer’s specified parts shown in the parts list.**
- **The parenthesized indications in the Remarks columns specify the areas or colour. (Refer to the cover page for area or colour)**
  **Parts without these indications can be used for all areas.**
- **Warning: This product uses a laser diode. Refer to Precaution of Laser Diode.**
- **Capacitor values are in microfarads (µF) unless specified otherwise, P= Pico-farads (pF), F= Farads.**
- **Resistance values are in ohms, unless specified otherwise, 1K= 1,000 (OHM).**
- **The marking (RTL) indicates that the Retention Time is limited for this items. After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of a availabilityis dependent on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.**
- **[M] Indicates in the Remarks columns indicates parts supplied by PAVCSG.**
- **The “(SF)” mark denotes the standard part.**
- **Reference for O/I book languages are as follows:**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Ar: | Arabic | Du: | Dutch | It: | Italian | Sp: | Spanish |
| Cf: | Canadian French | En: | English | Ko: | Korean | Sw: | Swedis |
| Cz: | Czech | Fr: | French | Po: | Polish | Co: | Traditio<br>Chinese |
| Da: | Danish | Ge: | German | Ru: | Russian | Cn: | Simplifi<br>Chinese |
| Pe: | Persian | | | | | | |

## 30.1. Cabinet Parts Location

### 30.1.1. Cabinet



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(TO FP3501)
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DVD MECHANISM
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36
(PANEL_L P.C.B)
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H601/ W601
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PP7501
JK7001
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JK7801
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(TO P1103)
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CN1104
(PANEL_R P.C.B)
13-9
41
13-2
H7801B
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13-8
(VOLUME P.C.B)
VR7801
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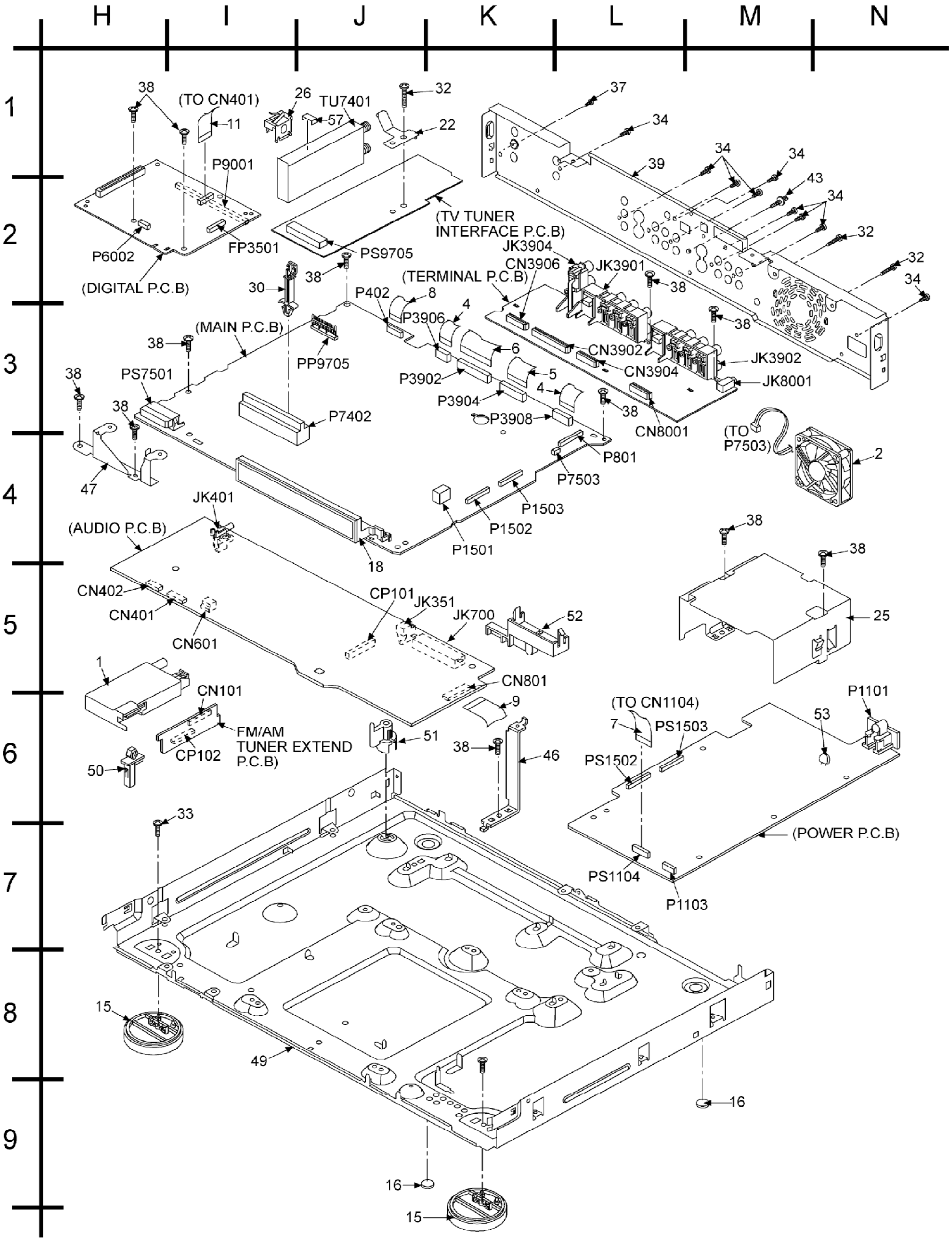
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P9001
P6002
FP3501
(DIGITAL P.C.B)
(TV TUNER INTERFACE P.C.B)
PS9705
JK3904
CN3906
JK3901
38
(TERMINAL P.C.B)
30
38
P402
8
P3906
4
38
(MAIN P.C.B)
38
PP9705
6
CN3902
JK3902
38
PS7501
P3902
5
CN3904
JK8001
38
4
P3904
P3908
38
CN8001
P7402
(TO P7503)
2
47
P801
P7503
JK401
P1503
(AUDIO P.C.B)
P1502
18
P1501
38
38
CN402
CP101
JK351
JK700
52
25
CN401
CN601
1
CN801
CN101
9
(TO CN1104)
P1101
53
7
PS1503
FM/AM TUNER EXTEND P.C.B)
51
38
46
CP102
PS1502
50
33
(POWER P.C.B)
PS1104
P1103
15
49
16
16
15

## 30.1.2. Cabinet Parts List

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| | | CABINET AND CHASSIS | |
| | | | |
| 1 | ENG06804QF | TUNER PACK | [M] |
| 2 | L6FALCCE0003 | FAN MOTOR | [M] |
| 3 | REX1196 | WIRE CONNECTOR ASS'Y | [M] |
| 4 | REZ1556 | 14P FFC WIRE | [M] |
| 5 | REZ1557 | 18P FFC WIRE | [M] |
| 6 | REZ1558 | 26P FFC WIRE | [M] |
| 7 | REZ1642 | 14P FFC | [M] |
| 8 | REZ1643 | 12P FFC | [M] |
| 9 | REZ1644 | 24P FFC | [M] |
| 10 | REZ1646 | 40P FFC | [M] |
| 11 | REZ1647 | 14P FFC | [M] |
| 12 | REZ1668 | 40P FFC WIRE (MECHA) | [M] |
| 13 | RYP1241-S | FRONT PANEL ASSY | [M] |
| 13-1 | RYP1240-S | FRONT PANEL UNIT | [M] |
| 13-10 | RKW0735-S1 | IR WINDOW | [M] |
| 13-11 | RYQ0499-S | POWER & TUNE BTN | [M] |
| 13-12 | RKF0696-S | PANEL DOOR | [M] |
| 13-2 | RYQ0501-S1 | SELECTOR & PLAY BTN | [M] |
| 13-3 | RYQ0529-S | TRAY DOOR UNIT | [M] |
| 13-4 | RGBX0011-S | PANA BADGE | [M] |
| 13-5 | RGK1796-S | VOLUME RING | [M] |
| 13-6 | RGK1797-S | BUTTON SHAPE ORN. | [M] |
| 13-7 | RGL0661-Q | BUTTON LIGHT GUIDE | [M] |
| 13-8 | RGL0664-Q | SELECTOR LIGHT GUIDE | [M] |
| 13-9 | RGQ0394-Q | IR GUIDE | [M] |
| 14 | RXQ1239 | HDD COVER UNIT | [M] |
| 15 | RKAX0009-S | FOOT BASE ASS'Y | [M] |
| 16 | RKA0145-K | CUSHION | [M] |
| 17 | RKM0491A-S | TOP CASE | [M] |
| 18 | RXQ1231 | FL HOLER UNIT | [M] |
| 19 | RSC0699 | EARTH PLATE R | [M] |
| 20 | RXQ1238 | HDD BASE UNIT | [M] |
| 21 | RSC0706 | EARTH PART | [M] |
| 22 | RSC0718 | TUNER EARTH PLATE | [M] |
| 23 | RSC0735 | EARTH PLATE (L) | [M] |
| 24 | RSC0736 | P/O EARTH PLATE | [M] |
| 25 | RSC0737 | PRIMARY SHEILD COVER | [M] |
| 26 | RSC0744 | TUNER SHIELD PLATE | [M] |
| 27 | RXX0283 | HEATSINK UNIT | [M] |
| 28 | RMR1620-X | FIXTURE (L) | [M] |
| 29 | RMR1640-X | FIXTURE (R) | [M] |
| 30 | RMX0298 | LOCKING CARD SPACER | [M] |
| 31 | XTB3+10J | SCREW | [M] |
| 32 | XTB3+20JFZ | SCREW | [M] |
| 33 | XTB3+6J | SCREW | [M] |
| 34 | XTBS3+8JFZ1 | SCREW | [M] |
| 35 | RGK1794-S | SIDE PANEL (L) | [M] |
| 36 | RGK1795-S | SIDE PANEL (R) | [M] |
| 37 | XSN3+4 | SCREW | [M] |
| 38 | XYA3+FJ8 | SCREW | [M] |
| 39 | RGR0341D-A2 | REAR PANEL | [M]P |
| 39 | RGR0341D-B2 | REAR PANEL | [M]PC |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| 40 | RGW0395-S | VOLUME KNOB | [M] |
| 41 | RHD26043 | SCREW WITH WASHER | [M] |
| 42 | RGK1789-S | PANEL DOOR ORNAMENT | [M] |
| 43 | RHD30070 | EARTH TERMINAL | [M] |
| 44 | RGK1790-S | FRONT PANEL ORNAMENT | [M] |
| 45 | RKW0757-S | FL WINDOW | [M] |
| 46 | RMA1795 | AUDIO ANGLE | [M] |
| 47 | RMA1794 | DIGITAL ANGLE | [M] |
| 48 | RMA1798 | FRONT ANGLE | [M] |
| 49 | RMK0569A | CHASSIS | [M] |
| 50 | RMN0203 | PCB HOLDER | [M] |
| 51 | RMN0392 | PCB SPACER | [M] |
| 52 | RMN0735 | CONNECTOR COVER | [M] |
| 53 | RMZ0339 | COVER | [M] |
| 54 | SNE2129-4 | SCREW | [M] |
| 55 | VXY1814 | DVD RAM DRIVE | [SPC] |
| 56 | K1MZ40Z00002 | 1 40P CONNECTORS | [M] |
| 57 | RGQ0412-K | NONWOVEN | [M] |
| 58 | RFKV0031HDK | HDD (HARDDISK DRIVE) | [M] |

## 30.2. Electrical Part List

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| | | P.C.B. | |
| | REP3774P | DIGITAL (SIDE A & SIDE B) P.C.B. | [M] P |
| | RFKBHT1500PC | DIGITAL (SIDE A & SIDE B) P.C.B. | [M] PC |
| | REP3723A | MAIN P.C.B. | [M] |
| | REP3724A | AUDIO (SIDE A & SIDE B) P.C.B. | [M] |
| | REP3722A | POWER P.C.B. | [M] |
| | REP3725A | PANEL_L P.C.B. / PANEL_R P.C.B. / TERMINAL P.C.B. / TV TUNER INTERFACE P.C.B. / VOLUME P.C.B. / FM/AM TUNER EXTEND P.C.B. | [M] |
| | | | |
| | | INTEGRATED CIRCUITS | |
| | | | |
| IC31 | C0CBAHE00002 | IC 3 TERMINAL REGULATOR | [M] |
| IC51 | C0DBCGE00002 | IC DC-DC VOLTAGE CONVERTER | [M] |
| IC61 | C0CBADE00034 | IC VOLTAGE REGULATOR | [M] |
| IC71 | C0CBADE00034 | IC VOLTAGE REGULATOR | [M] |
| IC401 | C0ABBB000067 | IC DUAL OP-AMP | [M] |
| IC403 | C0ABBB000067 | IC DUAL OP-AMP | [M] |
| IC502 | C1BB00000845 | IC ASP | [M] |
| IC601 | C0AABB000085 | IC DUAL OP-AMP | [M] |
| IC801 | C2CBHG000140 | IC MICROPROCESSOR | [M] |
| IC802 | C3EBGG000011 | IC EEPROM | [M] |
| IC1150 | C0DACZH00004 | IC POWER SUPPLY | [M] |
| IC1200 | C0DAEJC00003 | IC REGULATOR | [M] |
| IC1203 | C2HBZH000002 | IC MICROPROCESSOR | [M] |
| IC1204 | C0FBZK000007 | IC MULTI-CHANNEL AUDIO CODEC | [M] |
| IC1207 | C0JBAZ001229 | IC LOGIC | [M] |
| IC1208 | C0ABBB000102 | IC DUAL OP-AMP | [M] |
| IC1209 | C0ABBB000102 | IC DUAL OP-AMP | [M] |
| IC1302 | C0DBZGG00010 | IC LINEAR REGULATOR | [M] |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| IC1303 | C0DAZJH00003 | IC REGULATOR | [M] |
| IC1401 | C0DBAZZ00053 | IC POWER SUPPLY | [M] |
| IC1500 | C0DBAZH00012 | IC POWER | [M] |
| IC1501 | C0EBJ0000143 | IC VOLTAGE DETECTING | [M] |
| IC1502 | C0DBAHG00013 | IC LINEAR REGULATOR | [M] |
| IC1505 | C0CBCDD00008 | IC POWER SUPPLY | [M] |
| IC1506 | C0CBCDD00002 | IC LINEAR REGULATOR | [M] |
| IC1507 | C0CBCDD00006 | IC POWER SUPPLY | [M] |
| IC1508 | C0DBEGD00002 | IC LINEAR REGULATOR | [M] |
| IC1509 | C0DBEFG00003 | IC LINEAR REGULATOR | [M] |
| IC1510 | C0DBEGG00003 | IC POWER SUPPLY | [M] |
| IC3001 | C1AB00001979 | IC VIDEO | [M] |
| IC3401 | AN13310B-VB | IC AGC CLAMP | [M] |
| IC3402 | C3ABMG000193 | IC 16bit/16M SDRAM | [M] |
| IC3404 | MN85573 | IC AVENC | [M] |
| IC3406 | C1DB00001110 | IC CLOCK GENERATOR | [M] |
| IC3408 | C3ABPJ000017 | IC 32bit/64M SDRAM | [M] |
| IC3409 | C0DBZGC00066 | IC REG.D+3.3V | [M] |
| IC3501 | MN88302 | IC RTSC | [M] |
| IC3502 | C3ABRG000036 | IC 16bit/256M SDRAM | [M] |
| IC4001 | C1AB00001920 | IC MULTIPLEXER/DEMULTIPLEXER | [M] |
| IC4004 | C0CBCDC00026 | IC LINEAR REGULATOR | [M] |
| IC4005 | C0CBCDC00027 | IC LINEAR REGULATOR | [M] |
| IC4401 | C0FBBK000044 | IC D/A CONVERTER | [M] |
| IC4406 | C0FBAK000008 | IC A/D CONVERTER | [M] |
| IC4407 | C0JBAA000257 | IC CLOCK OUT | [M] |
| IC4408 | C0JBAD000107 | IC XD MUTE OUT | [M] |
| IC4409 | C0CBCBD00002 | IC REG.DAC+3.3V | [M] |
| IC6001 | MN2DS0011-H | IC AVDEC/MAIN CPU | [M] |
| IC6002 | C0EBE0000130 | IC RESET | [M] |
| IC6003 | C3CBLD000091 | IC 8Mbit NOR FLASH MEMORY | [M] |
| IC6004 | C0JBAZ001466 | IC 8bit BUFFER/DRIVER | [M] |
| IC6005 | C3ABRG000036 | IC 16bit/128M SDRAM | [M] |
| IC6006 | C3ABRG000036 | IC 16bit/128M SDRAM | [M] |
| IC6701 | C1ZBZ0002433 | IC GLUE | [M] |
| IC6703 | REP3774P | IC FLASH ROM | [M]P |
| IC6703 | RFKBHT1500PC | IC FLASH ROM | [M]PC |
| IC7404 | C0BBBB000006 | IC COMPARATOR | [M] |
| IC7501 | C2CBJG000423 | IC MASK MICROPROCESSOR | [M] |
| IC7502 | C0HBB0000033 | IC FL DISPLAY DRIVE | [M] |
| IC7503 | C0EBJ0000110 | IC VOLTAGE DETECTING | [M] |
| IC7505 | C0EBE0000194 | IC VOLTAGE DETECTING | [M] |
| IC7506 | C0ABBA000073 | IC OP-AMP | [M] |
| IC8001 | C2CBHG000144 | IC IR MICROPROCESSOR | [M] |
| IC8002 | C0EBJ0000319 | IC VOLTAGE DETECTING | [M] |
| IC50001 | C3ABPG000133 | IC 16bit/64M SDRAM | [M] |
| IC50002 | C3ABPG000133 | IC 16bit/64M SDRAM | [M] |
|  |  |  |  |
|  |  | TRANSISTORS |  |
|  |  |  |  |
| Q17 | B1ABGC000001 | TRANSISTOR | [M] |
| Q18 | 2SB071000L | TRANSISTOR | [M] |
| Q19 | B1GBCFJJ0039 | TRANSISTOR | [M] |
| Q21 | 2SC3940ARA | TRANSISTOR | [M] |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| Q22 | 2SB0621AHA | TRANSISTOR | [M] |
| Q23 | B1ADCF000001 | TRANSISTOR | [M] |
| Q351 | 2SA1576A106R | TRANSISTOR | [M] |
| Q601 | B1GFGCAA0001 | TRANSISTOR | [M] |
| Q602 | B1GFGCAA0001 | TRANSISTOR | [M] |
| Q604 | B1ADCF000001 | TRANSISTOR | [M] |
| Q608 | B1GDCFJA0001 | TRANSISTOR | [M] |
| Q610 | B1GFGCAA0001 | TRANSISTOR | [M] |
| Q611 | B1ABGC000001 | TRANSISTOR | [M] |
| Q612 | B1ABGC000001 | TRANSISTOR | [M] |
| Q613 | B1ADCF000001 | TRANSISTOR | [M] |
| Q690 | B1GFGCAA0001 | TRANSISTOR | [M] |
| Q691 | B1GDCFJA0001 | TRANSISTOR | [M] |
| Q701 | B1ADCF000001 | TRANSISTOR | [M] |
| Q702 | B1GBCFJA0002 | TRANSISTOR | [M] |
| Q751 | B1ADCF000001 | TRANSISTOR | [M] |
| Q752 | B1ADCF000001 | TRANSISTOR | [M] |
| Q761 | B1GFGCAA0001 | TRANSISTOR | [M] |
| Q762 | B1GFGCAA0001 | TRANSISTOR | [M] |
| Q763 | B1ABGC000001 | TRANSISTOR | [M] |
| Q771 | B1GDCFJA0001 | TRANSISTOR | [M] |
| Q801 | B1GBCFJN0004 | TRANSISTOR | [M] |
| Q1200 | B3PBA0000078 | TRANSISTOR | [M] |
| Q1201 | 2SB071000L | TRANSISTOR | [M] |
| Q1201 | B3PBA0000078 | TRANSISTOR | [M] |
| Q1202 | B1GBCFJJ0039 | TRANSISTOR | [M] |
| Q1203 | B1AAKD000008 | TRANSISTOR | [M] |
| Q1204 | B1ACKD000002 | TRANSISTOR | [M] |
| Q1400 | B1DHDC000027 | TRANSISTOR | [M] |
| Q4001 | 2SB1218A0L | TRANSISTOR | [M] |
| Q4002 | 2SD132800L | TRANSISTOR | [M] |
| Q4003 | 2SD132800L | TRANSISTOR | [M] |
| Q4004 | 2SD132800L | TRANSISTOR | [M] |
| Q4005 | 2SD132800L | TRANSISTOR | [M] |
| Q6001 | B1ABCF000114 | TRANSISTOR | [M] |
| Q6002 | B1ABCF000114 | TRANSISTOR | [M] |
| Q6701 | B1ABCF000114 | TRANSISTOR | [M] |
| Q6702 | B1ABCF000114 | TRANSISTOR | [M] |
| Q6703 | B1ABCF000114 | TRANSISTOR | [M] |
| Q6704 | B1ABCF000114 | TRANSISTOR | [M] |
| Q6705 | B1ABCF000114 | TRANSISTOR | [M] |
| Q7401 | 2SB1218A0L | TRANSISTOR | [M] |
| Q7501 | 2SD0601A0L | TRANSISTOR | [M] |
| Q7502 | 2SD0601A0L | TRANSISTOR | [M] |
| Q7503 | 2SD1994BR1VT | TRANSISTOR | [M] |
| Q7504 | 2SD0601A0L | TRANSISTOR | [M] |
| Q7505 | 2SD0601A0L | TRANSISTOR | [M] |
| Q7506 | 2SD0601A0L | TRANSISTOR | [M] |
| Q7507 | 2SB0709A0L | TRANSISTOR | [M] |
| Q7508 | 2SD1819A0L | TRANSISTOR | [M] |
| Q7509 | 2SD0601A0L | TRANSISTOR | [M] |
| Q7512 | 2SD0874A0L | TRANSISTOR | [M] |
| Q7517 | 2SD132800L | TRANSISTOR | [M] |
| Q8004 | 2SD132800L | TRANSISTOR | [M] |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| Q8005 | 2SB071000L | TRANSISTOR | [M] |
| Q50001 | B1ADCF000081 | TRANSISTOR | [M] |
| Q50002 | B1ADCF000081 | TRANSISTOR | [M] |
| Q50003 | B1ADCF000081 | TRANSISTOR | [M] |
| Q50004 | B1ADCF000081 | TRANSISTOR | [M] |
| Q50005 | B1ADCF000081 | TRANSISTOR | [M] |
| | | | |
| QR1200 | UNR221200L | CHIP TRANSISTOR | [M] |
| QR1301 | UNR221300L | CHIP TRANSISTOR | [M] |
| QR1302 | UNR221300L | CHIP TRANSISTOR | [M] |
| QR1303 | UNR221300L | CHIP TRANSISTOR | [M] |
| QR1304 | UNR221300L | CHIP TRANSISTOR | [M] |
| QR1305 | UNR221100L | CHIP TRANSISTOR | [M] |
| QR1306 | UNR212300L | CHIP TRANSISTOR | [M] |
| QR1307 | UNR221300L | CHIP TRANSISTOR | [M] |
| QR3502 | UNR521300L | CHIP TRANSISTOR | [M] |
| QR3503 | UNR521300L | CHIP TRANSISTOR | [M] |
| QR4001 | UNR521100L | CHIP TRANSISTOR | [M] |
| QR4002 | UNR521100L | CHIP TRANSISTOR | [M] |
| QR4003 | UNR521100L | CHIP TRANSISTOR | [M] |
| QR4004 | UNR521100L | CHIP TRANSISTOR | [M] |
| QR7001 | UNR221300L | CHIP TRANSISTOR | [M] |
| QR7002 | UNR221300L | CHIP TRANSISTOR | [M] |
| QR7003 | UNR221300L | CHIP TRANSISTOR | [M] |
| QR7004 | UNR221300L | CHIP TRANSISTOR | [M] |
| QR7005 | UNR221300L | CHIP TRANSISTOR | [M] |
| QR7006 | UNR221300L | CHIP TRANSISTOR | [M] |
| QR7502 | UNR521200L | CHIP TRANSISTOR | [M] |
| QR7507 | UNR511300L | CHIP TRANSISTOR | [M] |
| QR8001 | UNR511300L | CHIP TRANSISTOR | [M] |
| | | | |
| | | DIODES | |
| | | | |
| D21 | B0BC7R500001 | DIODE | [M] |
| D43 | B0EAKM000117 | DIODE | [M] |
| D645 | B0ACCK000005 | DIODE | [M] |
| D646 | B0ACCK000005 | DIODE | [M] |
| D696 | B0ACCK000005 | DIODE | [M] |
| D701 | B0ACCK000005 | DIODE | [M] |
| D702 | B0ACCK000005 | DIODE | [M] |
| D703 | B0ACCK000005 | DIODE | [M] |
| D704 | B0ACCK000005 | DIODE | [M] |
| D711 | B0ACCK000005 | DIODE | [M] |
| D712 | B0ACCK000005 | DIODE | [M] |
| D713 | B0ACCK000005 | DIODE | [M] |
| D714 | B0ACCK000005 | DIODE | [M] |
| D721 | MA2H73500L | DIODE | [M] |
| D722 | B0ACCK000005 | DIODE | [M] |
| D801 | B0ACCE000003 | DIODE | [M] |
| D802 | B0ACCE000003 | DIODE | [M] |
| D803 | MA2J72900L | DIODE | [M] |
| D804 | B0ACCK000005 | DIODE | [M] |
| D813 | B0ACCK000005 | DIODE | [M] |
| D1110 | ERZV10D471CS | DIODE | [M] ⚠ |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| D1140 | B0EDKT000002 | DIODE | [M] |
| D1150 | B0ZAZ0000052 | DIODE | [M] |
| D1151 | B0HAGM000006 | DIODE | [M] |
| D1152 | B0BA7R900004 | DIODE | [M] |
| D1154 | MA2C165001VT | DIODE | [M] |
| D1156 | MA2J11100L | DIODE | [M] |
| D1260 | B0JAQE000004 | DIODE | [M] |
| D1261 | B0JAQE000004 | DIODE | [M] |
| D1262 | B0EAKM000117 | DIODE | [M] |
| D1263 | B0EAKM000117 | DIODE | [M] |
| D1271 | B0JAQG000005 | DIODE | [M] |
| D1280 | B0JAMG000010 | DIODE | [M] |
| D1400 | MA2J11100L | DIODE | [M] |
| D1401 | MA2Q73800L | DIODE | [M] |
| D1402 | MA2Q73800L | DIODE | [M] |
| D1501 | MA2C165001VT | DIODE | [M] |
| D1504 | B0ACCK000005 | DIODE | [M] |
| D3401 | MA3S132E0L | DIODE | [M] |
| D3402 | MA3S132E0L | DIODE | [M] |
| D4001 | MA3Z142D0LG | DIODE | [M] |
| D4002 | MA3Z142D0LG | DIODE | [M] |
| D4401 | MA3Z142K0LG | DIODE | [M] |
| D7001 | LNJ201LPQJA | DIODE | [M] |
| D7002 | LNJ301MPUJAD | DIODE | [M] |
| D7003 | LNJ301MPUJAD | DIODE | [M] |
| D7004 | LNJ301MPUJAD | DIODE | [M] |
| D7005 | LNJ301MPUJAD | DIODE | [M] |
| D7006 | LNJ301MPUJAD | DIODE | [M] |
| D7007 | MAZ80510HL | DIODE | [M] |
| D7401 | MAZ4300NMF | DIODE | [M] |
| D7501 | B0BA02600018 | DIODE | [M] |
| D7502 | B0AAGM000007 | DIODE | [M] |
| D7503 | B0HAGR000002 | DIODE | [M] |
| D7504 | MA2C18500E | DIODE | [M] |
| D7505 | MA2C18500E | DIODE | [M] |
| D7506 | B0BA03600019 | DIODE | [M] |
| D7507 | B0JDCE000002 | DIODE | [M] |
| D7511 | B0JACE000001 | DIODE | [M] |
| D8006 | B0ACCK000005 | DIODE | [M] |
| D8007 | B0ACCK000005 | DIODE | [M] |
| D8008 | B0ACCK000005 | DIODE | [M] |
| | | | |
| | | CHIP INDUCTORS | |
| | | | |
| LB1123 | J0JKB0000003 | INDUCTOR | [M] |
| LB1124 | J0JKB0000003 | INDUCTOR | [M] |
| LB1125 | J0JHC0000012 | COIL | [M] |
| LB1501 | J0JHC0000032 | FILTER | [M] |
| LB1503 | J0JHC0000032 | FILTER | [M] |
| LB1504 | J0JKB0000003 | INDUCTOR | [M] |
| LB1505 | J0JKB0000003 | INDUCTOR | [M] |
| LB3404 | J0JHC0000032 | FILTER | [M] |
| LB3405 | J0JHC0000032 | FILTER | [M] |
| LB3408 | J0JHC0000032 | FILTER | [M] |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| LB3409 | J0JHC0000032 | FILTER | [M] |
| LB3901 | J0JCC0000103 | FILTER | [M] |
| LB3902 | J0JCC0000103 | FILTER | [M] |
| LB3903 | J0JCC0000103 | FILTER | [M] |
| LB3904 | J0JCC0000103 | FILTER | [M] |
| LB3908 | J0JCC0000103 | FILTER | [M] |
| LB3909 | J0JCC0000103 | FILTER | [M] |
| LB3910 | J0JCC0000103 | FILTER | [M] |
| LB3911 | J0JCC0000103 | FILTER | [M] |
| LB3912 | J0JCC0000103 | FILTER | [M] |
| LB3913 | J0JCC0000103 | FILTER | [M] |
| LB3914 | J0JCC0000103 | FILTER | [M] |
| LB3915 | J0JCC0000103 | FILTER | [M] |
| LB3916 | J0JCC0000103 | FILTER | [M] |
| LB3917 | J0JCC0000103 | FILTER | [M] |
| LB3918 | J0JCC0000103 | FILTER | [M] |
| LB4401 | J0JGC0000020 | FILTER | [M] |
| LB4402 | J0JGC0000020 | FILTER | [M] |
| LB4403 | J0JGC0000020 | FILTER | [M] |
| LB4404 | J0JGC0000020 | FILTER | [M] |
| LB4405 | J0JHC0000032 | FILTER | [M] |
| LB4907 | J0JCC0000103 | FILTER | [M] |
| LB4908 | J0JCC0000103 | FILTER | [M] |
| LB4909 | J0JCC0000103 | FILTER | [M] |
| LB4910 | J0JCC0000103 | FILTER | [M] |
| LB4911 | J0JCC0000103 | FILTER | [M] |
| LB4912 | J0JCC0000103 | FILTER | [M] |
| LB4913 | J0JCC0000103 | FILTER | [M] |
| LB4914 | J0JCC0000103 | FILTER | [M] |
| LB6001 | J0JHC0000032 | FILTER | [M] |
| LB6002 | J0JHC0000032 | FILTER | [M] |
| LB6003 | J0JHC0000032 | FILTER | [M] |
| LB6004 | J0JHC0000032 | FILTER | [M] |
| LB7402 | J0JHC0000032 | FILTER | [M] |
| LB7409 | J0JHC0000032 | FILTER | [M] |
| LB7410 | J0JHC0000032 | FILTER | [M] |
| LB7411 | ERJ3GEY0R00V | 0 1/16W | [M] |
| LB7412 | ERJ3GEY0R00V | 0 1/16W | [M] |
| LB7413 | J0JHC0000032 | FILTER | [M] |
| LB7501 | J0JCC0000060 | EMI FILTER | [M] |
| LB7502 | ERJ3GEY0R00V | 0 1/16W | [M] |
| LB7503 | J0JKB0000037 | EMI FILTER | [M] |
| LB7504 | J0JGC0000020 | FILTER | [M] |
| LB7505 | J0JCC0000103 | FILTER | [M] |
| LB7506 | J0JCC0000103 | FILTER | [M] |
| LB7507 | ERJ3GEY0R00V | 0 1/16W | [M] |
| LB7508 | ERJ3GEY0R00V | 0 1/16W | [M] |
| LB8001 | J0JHC0000032 | FILTER | [M] |
| LB9001 | J0JHC0000032 | FILTER | [M] |
| LB9002 | J0JHC0000032 | FILTER | [M] |
| LB9006 | J0JCC0000103 | FILTER | [M] |
| LB9007 | J0JCC0000103 | FILTER | [M] |
| LB9008 | J0JHC0000045 | CHIP INDUCTORS | [M] |
| LB50001 | J0JHC0000032 | FILTER | [M] |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| LB50002 | J0JHC0000032 | FILTER | [M] |
| LB50003 | J0JHC0000032 | FILTER | [M] |
| LB50004 | J0JHC0000032 | FILTER | [M] |
| LB50005 | J0JHC0000032 | FILTER | [M] |
| | | | |
| | | VARIABLE RESISTORS | |
| | | | |
| VR7801 | EVEKF2F3024M | VOL ENCODER | [M] |
| | | | |
| | | SWITCHES | |
| | | | |
| S7003 | EVQ21405R | SW REC | [M] |
| S7004 | EVQ21405R | SW CH DOWN | [M] |
| S7005 | EVQ21405R | SW POWER | [M] |
| S7006 | EVQ21405R | SW CH UP | [M] |
| S7007 | EVQ21405R | SW TIME WARP | [M] |
| S7802 | EVQ21405R | SW STOP | [M] |
| S7803 | EVQ21405R | SW SKIP-R | [M] |
| S7804 | EVQ21405R | SW PLAY | [M] |
| S7805 | EVQ21405R | SW SELECT | [M] |
| S7808 | EVQ21405R | SW OPEN/CLOSE | [M] |
| S7809 | EVQ21405R | SW SKIP-F | [M] |
| | | | |
| | | CONNECTORS | |
| | | | |
| CN101 | K1KB10B00042 | 10P CONNECTOR | [M] |
| CN401 | K1MN14B00066 | 14P CONNECTOR | [M] |
| CN402 | K1MN12B00095 | 12P CONNECTOR | [M] |
| CN601 | K1MP04B00005 | 4P CONNECTOR | [M] |
| CN801 | K1MN24B00051 | 24P CONNECTOR | [M] |
| CN1104 | K1MN14C00004 | 14P CONNECTOR | [M] |
| CN3902 | K1MN26A00030 | 26P CONNECTOR | [M] |
| CN3904 | K1MN18A00027 | 18P CONNECTOR | [M] |
| CN3906 | K1MN14A00017 | 14P CONNECTOR | [M] |
| CN8001 | K1MN14A00017 | 14P CONNECTOR | [M] |
| | | | |
| CP101 | K1KA10A00263 | 10P CONNECTOR | [M] |
| CP102 | K1KA10A00263 | 10P CONNECTOR | [M] |
| | | | |
| P402 | K1MN12A00047 | 12P CONNECTOR | [M] |
| P801 | K1MN24A00030 | 24P FFC CONNECTOR | [M] |
| P1103 | K1KA04A00192 | 4P CONNECTOR | [M] |
| P1501 | K1KA08A00427 | 2P CONNECTOR | [M] |
| P1502 | K1KA23A00003 | 2P CONNECTOR | [M] |
| P1503 | K1KA23A00003 | 2P CONNECTOR | [M] |
| P3902 | K1MN26A00030 | 26P CONNECTOR | [M] |
| P3904 | K1MN18A00027 | 18P CONNECTOR | [M] |
| P3906 | K1MN14A00017 | 14P CONNECTOR | [M] |
| P3908 | K1MN14A00017 | 14P CONNECTOR | [M] |
| P6002 | K1KA06A00394 | 6P CONNECTOR | [M] |
| P7402 | K1KA88A00002 | 2P CONNECTOR | [M] |
| P7503 | K1KA03A00173 | 2P CONNECTOR | [M] |
| P9001 | K1KB88A00002 | 2P CONNECTOR | [M] |
| PS1104 | K1MN14A00047 | 14P FFC CONNECTOR | [M] |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| PS1502 | K1KB23A00002 | 2P CONNECTOR | [M] |
| PS1503 | K1KB23A00002 | 2P CONNECTOR | [M] |
| PS7501 | K1KB22B00010 | 22P CONNECTOR | [M] |
| PS9705 | K1KB14C00004 | 14P CONNECTOR | [M] |
| FP3501 | K1MN40A00022 | 40P CONNECTOR | [M] |
| FP4401 | K1MN14A00043 | 14P CONNECTOR | [M] |
| PP7501 | K1KA22C00001 | 22P CONNECTOR | [M] |
| PP9705 | K1KA14A00151 | 14P CONNECTOR | [M] |
| | | | |
| | | COILS & TRANSFORMERS | |
| | | | |
| L14 | G0A200D00002 | COIL | [M] |
| L15 | J0JCC0000077 | CHIP BEEZ | [M] |
| L351 | G0C470KA0007 | COIL | [M] |
| L392 | G0A200D00002 | COIL | [M] |
| L393 | G0A200D00002 | COIL | [M] |
| L394 | G0A200D00002 | COIL | [M] |
| L801 | J0JBC0000041 | CHIP INDUCTOR | [M] |
| L1120 | G0B123E00001 | CHOKE COIL | [M] ⚠ |
| L1201 | J0JBC0000019 | CHIP INDUCTOR | [M] |
| L1202 | J0JBC0000019 | CHIP INDUCTOR | [M] |
| L1203 | J0JBC0000041 | CHIP INDUCTOR | [M] |
| L1204 | G1C2R2K00008 | COIL | [M] |
| L1205 | G1C2R2K00008 | COIL | [M] |
| L1206 | J0JBC0000041 | CHIP INDUCTOR | [M] |
| L1207 | J0JBC0000019 | CHIP INDUCTOR | [M] |
| L1260 | G0A100H00014 | INDUCTOR | [M] |
| L1270 | G0A100H00014 | INDUCTOR | [M] |
| L1280 | G0A200D00002 | COIL | [M] |
| L1400 | G0A560ZA0049 | LINE CHOKE | [M] |
| L1401 | G0A220G00018 | INDUCTOR | [M] |
| L1402 | G0A560ZA0049 | LINE CHOKE | [M] |
| L1451 | G0A100H00014 | INDUCTOR | [M] |
| L1452 | G0A220G00018 | INDUCTOR | [M] |
| L1453 | G0A100H00014 | INDUCTOR | [M] |
| L1454 | G0A200D00002 | COIL | [M] |
| L1455 | G0A200D00002 | COIL | [M] |
| L1456 | G0A100H00014 | INDUCTOR | [M] |
| L1457 | G0A100H00014 | INDUCTOR | [M] |
| L1458 | G0A220G00018 | INDUCTOR | [M] |
| L1459 | G0A200D00002 | COIL | [M] |
| L1460 | G0A100H00014 | INDUCTOR | [M] |
| L1461 | G0A100H00014 | INDUCTOR | [M] |
| L3001 | G0C220JA0019 | AXIAL INDUCTOR | [M] |
| L3002 | G0C220JA0019 | AXIAL INDUCTOR | [M] |
| L7001 | J0JCC0000103 | FILTER | [M] |
| L7002 | J0JCC0000103 | FILTER | [M] |
| L7003 | J0JCC0000103 | FILTER | [M] |
| L7004 | J0JCC0000103 | FILTER | [M] |
| L7005 | J0JCC0000103 | FILTER | [M] |
| L7401 | G0A220G00018 | INDUCTOR | [M] |
| L7501 | G0C220JA0019 | AXIAL INDUCTOR | [M] |
| L7502 | ELESN101KA | CHOKE COIL | [M] |
| L7801 | G0C101JA0030 | INDUCTOR | [M] |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| L7802 | G0C101JA0030 | INDUCTOR | [M] |
| L7803 | J0JBC0000019 | CHIP INDUCTOR | [M] |
| L7804 | J0JBC0000019 | CHIP INDUCTOR | [M] |
| | | | |
| T1150 | ETS29AZ2E3AC | SW TRANSFORMER | [M] ⚠ |
| T7501 | ETS13TB119AP | TRANSFORMER | [M] ⚠ |
| | | | |
| | | COMPONENT COMBINATION | |
| | | | |
| Z7001 | B3RAD0000035 | INFRAREDRAY | [M] |
| | | | |
| B7501 | CR2354-1GUF | Lithium Battery | [M] |
| | | | |
| TU7401 | ENGD6201DR | TV TUNER PACK | [M] |
| | | | |
| | | OSCILLATORS | |
| | | | |
| X801 | H2B100500004 | CERAMIC RESONATORS | [M] |
| X1201 | H0J245500035 | CRYSTAL OSCILLATOR | [M] |
| X3401 | H0J270500069 | FIELD MOUNTING TYPE | [M] |
| X3501 | H2D330500001 | SURFACE MOUNTING PIE | [M] |
| X7501 | H0D100500016 | CRYSTAL RESONATORS | [M] |
| X7502 | H0A327200026 | CRYSTAL OSCILLATOR | [M] |
| X8001 | EF0MC1605T4 | CRYSTAL OSCILLATOR | [M] |
| | | | |
| | | DISPLAY TUBE | |
| | | | |
| FL3401 | F1H0J4740004 | CERAMIC CAPACITOR | [M] |
| FL3402 | F1H0J4740004 | CERAMIC CAPACITOR | [M] |
| FL3404 | F1H0J4740004 | CERAMIC CAPACITOR | [M] |
| FL3406 | F1H0J4740004 | CERAMIC CAPACITOR | [M] |
| FL3407 | F1H0J4740004 | CERAMIC CAPACITOR | [M] |
| FL3409 | F1H0J4740004 | CERAMIC CAPACITOR | [M] |
| FL3410 | F1H0J4740004 | CERAMIC CAPACITOR | [M] |
| FL3411 | F1H0J4740004 | CERAMIC CAPACITOR | [M] |
| FL3412 | F1H0J4740004 | CERAMIC CAPACITOR | [M] |
| FL3414 | F1H0J4740004 | CERAMIC CAPACITOR | [M] |
| FL3415 | F1H0J4740004 | CERAMIC CAPACITOR | [M] |
| FL3416 | F1H0J4740004 | CERAMIC CAPACITOR | [M] |
| FL3417 | F1H0J4740004 | CERAMIC CAPACITOR | [M] |
| FL3418 | F1H0J4740004 | CERAMIC CAPACITOR | [M] |
| FL3419 | F1H0J4740004 | CERAMIC CAPACITOR | [M] |
| FL3420 | F1H0J4740004 | CERAMIC CAPACITOR | [M] |
| FL3421 | F1H0J4740004 | CERAMIC CAPACITOR | [M] |
| FL3422 | F1H0J4740004 | CERAMIC CAPACITOR | [M] |
| FL3423 | F1H0J4740004 | CERAMIC CAPACITOR | [M] |
| FL3424 | F1H0J4740004 | CERAMIC CAPACITOR | [M] |
| FL3425 | F1H0J4740004 | CERAMIC CAPACITOR | [M] |
| FL3426 | F1H0J4740004 | CERAMIC CAPACITOR | [M] |
| FL3429 | F1H0J4740004 | CERAMIC CAPACITOR | [M] |
| FL3431 | F1H0J4740004 | CERAMIC CAPACITOR | [M] |
| FL3433 | F1H0J4740004 | CERAMIC CAPACITOR | [M] |
| FL3434 | F1H0J4740004 | CERAMIC CAPACITOR | [M] |
| FL3435 | F1H0J4740004 | CERAMIC CAPACITOR | [M] |

| | | | |
|---|---|---|---|
| [illegible] | [illegible] | CERAMIC CAPACITOR | [M] |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| FL3501 | F1H0J4740004 | CERAMIC CAPACITOR | [M] |
| FL3502 | F1H0J4740004 | CERAMIC CAPACITOR | [M] |
| FL3505 | F1H0J4740004 | CERAMIC CAPACITOR | [M] |
| FL3506 | F1H0J4740004 | CERAMIC CAPACITOR | [M] |
| FL3507 | F1H0J4740004 | CERAMIC CAPACITOR | [M] |
| FL3508 | F1H0J4740004 | CERAMIC CAPACITOR | [M] |
| FL3509 | F1H0J4740004 | CERAMIC CAPACITOR | [M] |
| FL3510 | F1H0J4740004 | CERAMIC CAPACITOR | [M] |
| FL3511 | F1H0J4740004 | CERAMIC CAPACITOR | [M] |
| FL3512 | F1H0J4740004 | CERAMIC CAPACITOR | [M] |
| FL3513 | F1H0J4740004 | CERAMIC CAPACITOR | [M] |
| FL3514 | F1H0J4740004 | CERAMIC CAPACITOR | [M] |
| FL3515 | F1H0J4740004 | CERAMIC CAPACITOR | [M] |
| FL3516 | F1H0J4740004 | CERAMIC CAPACITOR | [M] |
| FL4401 | F1H0J4740004 | CERAMIC CAPACITOR | [M] |
| FL4402 | F1H0J4740004 | CERAMIC CAPACITOR | [M] |
| FL4404 | F1H0J4740004 | CERAMIC CAPACITOR | [M] |
| FL4405 | F1H0J4740004 | CERAMIC CAPACITOR | [M] |
| FL6001 | F1H0J4740004 | CERAMIC CAPACITOR | [M] |
| FL6002 | F1H0J4740004 | CERAMIC CAPACITOR | [M] |
| FL6003 | F1H0J4740004 | CERAMIC CAPACITOR | [M] |
| FL6004 | F1H0J4740004 | CERAMIC CAPACITOR | [M] |
| FL6005 | F1H0J4740004 | CERAMIC CAPACITOR | [M] |
| FL6006 | F1H0J4740004 | CERAMIC CAPACITOR | [M] |
| FL6007 | F1H0J4740004 | CERAMIC CAPACITOR | [M] |
| FL6008 | F1H0J4740004 | CERAMIC CAPACITOR | [M] |
| FL6009 | F1H0J4740004 | CERAMIC CAPACITOR | [M] |
| FL6010 | F1H0J4740004 | CERAMIC CAPACITOR | [M] |
| FL6011 | F1H0J4740004 | CERAMIC CAPACITOR | [M] |
| FL6012 | F1H0J4740004 | CERAMIC CAPACITOR | [M] |
| FL6013 | F1H0J4740004 | CERAMIC CAPACITOR | [M] |
| FL6014 | F1H0J4740004 | CERAMIC CAPACITOR | [M] |
| FL6015 | F1H0J4740004 | CERAMIC CAPACITOR | [M] |
| FL6016 | F1H0J4740004 | CERAMIC CAPACITOR | [M] |
| FL6017 | F1H0J4740004 | CERAMIC CAPACITOR | [M] |
| FL6018 | F1H0J4740004 | CERAMIC CAPACITOR | [M] |
| FL6020 | F1H0J4740004 | CERAMIC CAPACITOR | [M] |
| FL6021 | F1H0J4740004 | CERAMIC CAPACITOR | [M] |
| FL6022 | F1H0J4740004 | CERAMIC CAPACITOR | [M] |
| FL6023 | F1H0J4740004 | CERAMIC CAPACITOR | [M] |
| FL6701 | F1H0J4740004 | CERAMIC CAPACITOR | [M] |
| FL6702 | F1H0J4740004 | CERAMIC CAPACITOR | [M] |
| FL6703 | F1H0J4740004 | CERAMIC CAPACITOR | [M] |
| FL50001 | F1H0J4740004 | CERAMIC CAPACITOR | [M] |
| FL50002 | F1H0J4740004 | CERAMIC CAPACITOR | [M] |
| FL50003 | F1H0J4740004 | CERAMIC CAPACITOR | [M] |
| FL50004 | F1H0J4740004 | CERAMIC CAPACITOR | [M] |
| FL50005 | F1H0J4740004 | CERAMIC CAPACITOR | [M] |
| FL50006 | F1H0J4740004 | CERAMIC CAPACITOR | [M] |
| | | | |
| | | FUSES | |
| | | | |
| F1 | K5D162AQ0004 | FUSE | [M] ⚠ ; |
| | | | |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| | | FUSE RESISTORS | |
| | | | |
| IP1 | K5H2022A0013 | S/MOUNTING FUSE | [M] ⚠ |
| IP2 | K5H2022A0013 | S/MOUNTING FUSE | [M] ⚠ |
| IP3 | K5H2022A0013 | S/MOUNTING FUSE | [M] ⚠ |
| IP7501 | D4FAR4000001 | FUSIBLE RESISTOR | [M] ⚠ |
| | | | |
| | | FUSE HOLDER | |
| | | | |
| ZA1 | EYF52BC | FUSE HOLDER | [M] |
| ZA2 | EYF52BC | FUSE HOLDER | [M] |
| | | | |
| | | HOLDERS | |
| | | | |
| H601 | K1ZZ00000832 | 4P WIRE HOLDER | [M] |
| H7801A | K1YZ03000010 | 3P CABLE HOLDER | [M] |
| H7801B | K1YZ03000010 | 3P CABLE HOLDER | [M] |
| | | | |
| DP7501 | A2BB00000134 | FLUORESCENT CHAR. | [M] |
| | | | |
| | | JACKS | |
| | | | |
| JK351 | B3RAB0000036 | JACK | [M] |
| JK401 | K2HA203B0015 | JK SMALL SIGN | [M] |
| JK700 | K1FB125B0097 | JK SYSTEM CONNECTOR | [M] |
| JK3901 | K1U822B00001 | JK MULTI. CONNECTOR | [M] |
| JK3902 | K1U820B00002 | CONNECTOR | [M] |
| JK3904 | K2HA304B0003 | JK SMALL SIGN | [M] |
| JK7001 | K1U413A00007 | JK MULTI CONNECTOR | [M] |
| JK7801 | K2HC103A0023 | JK SMALL SIGN | [M] |
| JK8001 | K2HC104B0013 | JK SMALL SIGN | [M] |
| P1101 | K2AB2H000004 | JK INLET/OUTLET | [M] ⚠ |
| | | | |
| | | EARTH TERMINAL | |
| | | | |
| E400 | K4CZ01000027 | TERMINAL | [M] |
| E700 | K4CZ01000027 | TERMINAL | [M] |
| ZA1101 | K4CZ01000027 | TERMINAL | [M] |
| ZA1102 | K4CZ01000027 | TERMINAL | [M] |
| ZA1105 | K4CZ01000027 | TERMINAL | [M] |
| ZA1151 | K4CZ01000027 | TERMINAL | [M] |
| ZJ3901 | K4CZ01000027 | TERMINAL | [M] |
| | | | |
| | | WIRES | |
| | | | |
| W601 | RWJ1104280XX | WIRE (PANEL-AUDIO) | [M] |
| W7801 | RWJ1103110XX | FLAT WIRE | [M] |
| | | | |
| | | CHIP RESISTORS | |
| | | | |
| W501 | ERJ6GEY0R00V | 0 1/10W | [M] |
| W601 | ERJ3GEY0R00V | 0 1/16W | [M] |
| W602 | ERJ3GEY0R00V | 0 1/16W | [M] |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| W603 | ERJ3GEY0R00V | 0 1/16W | [M] |
| W604 | ERJ6GEY0R00V | 0 1/10W | [M] |
| W605 | ERJ3GEY0R00V | 0 1/16W | [M] |
| W606 | ERJ3GEY0R00V | 0 1/16W | [M] |
| W607 | ERJ3GEY0R00V | 0 1/16W | [M] |
| W608 | ERJ3GEY0R00V | 0 1/16W | [M] |
| W609 | ERJ3GEY0R00V | 0 1/16W | [M] |
| W610 | ERJ3GEY0R00V | 0 1/16W | [M] |
| W611 | ERJ3GEY0R00V | 0 1/16W | [M] |
| W612 | ERJ3GEY0R00V | 0 1/16W | [M] |
| W613 | ERJ3GEY0R00V | 0 1/16W | [M] |
| W614 | ERJ3GEY0R00V | 0 1/16W | [M] |
| W615 | ERJ3GEY0R00V | 0 1/16W | [M] |
| W616 | ERJ3GEY0R00V | 0 1/16W | [M] |
| W617 | ERJ3GEY0R00V | 0 1/16W | [M] |
| W618 | ERJ6GEY0R00V | 0 1/10W | [M] |
| W619 | ERJ3GEY0R00V | 0 1/16W | [M] |
| W620 | ERJ6GEY0R00V | 0 1/10W | [M] |
| W621 | ERJ6GEY0R00V | 0 1/10W | [M] |
| W622 | ERJ6GEY0R00V | 0 1/10W | [M] |
| W623 | ERJ6GEY0R00V | 0 1/10W | [M] |
| W624 | ERJ3GEY0R00V | 0 1/16W | [M] |
| W625 | ERJ3GEY0R00V | 0 1/16W | [M] |
| W626 | ERJ3GEY0R00V | 0 1/16W | [M] |
| W627 | ERJ6GEY0R00V | 0 1/10W | [M] |
| W629 | ERJ6GEY0R00V | 0 1/10W | [M] |
| W631 | ERJ6GEY0R00V | 0 1/10W | [M] |
| W632 | ERJ6GEY0R00V | 0 1/10W | [M] |
| W633 | ERJ3GEY0R00V | 0 1/16W | [M] |
| W634 | ERJ6GEY0R00V | 0 1/10W | [M] |
| W635 | ERJ6GEY0R00V | 0 1/10W | [M] |
| W636 | ERJ6GEY0R00V | 0 1/10W | [M] |
| W637 | ERJ3GEY0R00V | 0 1/16W | [M] |
| W638 | ERJ3GEY0R00V | 0 1/16W | [M] |
| W639 | ERJ3GEY0R00V | 0 1/16W | [M] |
| W801 | ERJ3GEY0R00V | 0 1/16W | [M] |
| W802 | ERJ3GEY0R00V | 0 1/16W | [M] |
| W803 | ERJ3GEY0R00V | 0 1/16W | [M] |
| W804 | ERJ3GEY0R00V | 0 1/16W | [M] |
| W805 | ERJ3GEY0R00V | 0 1/16W | [M] |
| | | | |
| | | RESISTORS | |
| | | | |
| R17 | ERJ3GEYJ123V | 12K 1/16W | [M] |
| R18 | ERJ3GEYJ222V | 2.2K 1/16W | [M] |
| R19 | ERJ3GEYJ222V | 2.2K 1/16W | [M] |
| R21 | ERDS1FVJ2R2T | 2.2 1/2W | [M] |
| R22 | ERDS1FVJ392T | 3.9K 1/2W | [M] |
| R23 | ERJ3GEYJ151V | 150 1/16W | [M] |
| R24 | ERJ3GEYJ153V | 15K 1/16W | [M] |
| R25 | D0GB272JA002 | 2.7K 1/16W | [M] |
| R27 | ERDS1FVJ2R2T | 2.2 1/2W | [M] |
| R28 | ERJ3GEYJ472V | 4.7K 1/16W | [M] |
| R29 | ERJ3GEYJ153V | 15K 1/16W | [M] |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| R51 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R101 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R102 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R301 | ERJ3GEYJ822V | 8.2K 1/16W | [M] |
| R302 | ERJ3GEYJ822V | 8.2K 1/16W | [M] |
| R303 | ERJ3GEYJ822V | 8.2K 1/16W | [M] |
| R304 | ERJ3GEYJ822V | 8.2K 1/16W | [M] |
| R305 | ERJ3GEYJ822V | 8.2K 1/16W | [M] |
| R306 | ERJ3GEYJ822V | 8.2K 1/16W | [M] |
| R311 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R312 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R313 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R314 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R315 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R316 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R351 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R352 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R361 | D0GB101JA002 | 100 1/16W | [M] |
| R391 | ERJ3GEYJ2R2V | 2.2 1/16W | [M] |
| R401 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R402 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R403 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R404 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R411 | ERJ3GEYJ822V | 8.2K 1/16W | [M] |
| R412 | ERJ3GEYJ822V | 8.2K 1/16W | [M] |
| R413 | ERJ3GEYJ822V | 8.2K 1/16W | [M] |
| R414 | ERJ3GEYJ822V | 8.2K 1/16W | [M] |
| R415 | ERJ3GEYJ104V | 100K 1/16W | [M] |
| R416 | ERJ3GEYJ104V | 100K 1/16W | [M] |
| R425 | ERJ3GEYJ392V | 3.9K 1/16W | [M] |
| R426 | ERJ3GEYJ392V | 3.9K 1/16W | [M] |
| R427 | ERJ3GEYJ472V | 4.7K 1/16W | [M] |
| R428 | ERJ3GEYJ472V | 4.7K 1/16W | [M] |
| R431 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R432 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R433 | ERJ3GEYJ104V | 100K 1/16W | [M] |
| R434 | ERJ3GEYJ104V | 100K 1/16W | [M] |
| R451 | ERJ3GEYJ222V | 2.2K 1/16W | [M] |
| R452 | ERJ3GEYJ222V | 2.2K 1/16W | [M] |
| R453 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R454 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R461 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R462 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R463 | ERJ3GEYJ104V | 100K 1/16W | [M] |
| R464 | ERJ3GEYJ104V | 100K 1/16W | [M] |
| R471 | ERJ3GEYJ222V | 2.2K 1/16W | [M] |
| R472 | ERJ3GEYJ222V | 2.2K 1/16W | [M] |
| R473 | ERJ3GEYJ104V | 100K 1/16W | [M] |
| R474 | ERJ3GEYJ104V | 100K 1/16W | [M] |
| R481 | ERJ3GEYJ822V | 8.2K 1/16W | [M] |
| R482 | ERJ3GEYJ822V | 8.2K 1/16W | [M] |
| R483 | ERJ3GEYJ393V | 39K 1/16W | [M] |
| R484 | ERJ3GEYJ393V | 39K 1/16W | [M] |
| R485 | ERJ3GEYJ123V | 12K 1/16W | [M] |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| R486 | ERJ3GEYJ123V | 12K 1/16W | [M] |
| R487 | ERJ3GEYJ182V | 1.8K 1/16W | [M] |
| R488 | ERJ3GEYJ182V | 1.8K 1/16W | [M] |
| R489 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R490 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R509 | ERJ3GEYJ273V | 27K 1/16W | [M] |
| R510 | ERJ3GEYJ273V | 27K 1/16W | [M] |
| R521 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R522 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R525 | ERJ3GEYJ333V | 33K 1/16W | [M] |
| R551 | ERJ3GEYJ271V | 270 1/16W | [M] |
| R552 | ERJ3GEYJ271V | 270 1/16W | [M] |
| R561 | ERJ3GEYJ223V | 22K 1/16W | [M] |
| R562 | ERJ3GEYJ223V | 22K 1/16W | [M] |
| R571 | ERJ3GEYJ472V | 4.7K 1/16W | [M] |
| R572 | ERJ3GEYJ472V | 4.7K 1/16W | [M] |
| R591 | ERJ3GEYJ222V | 2.2K 1/16W | [M] |
| R592 | ERJ3GEYJ222V | 2.2K 1/16W | [M] |
| R601 | ERJ3GEY0R00V | 0 1/16W | [M] |
| R603 | ERJ3GEYJ224V | 220K 1/16W | [M] |
| R605 | ERJ3GEYJ223V | 22K 1/16W | [M] |
| R606 | ERJ3GEYJ223V | 22K 1/16W | [M] |
| R607 | ERJ3GEYJ153V | 15K 1/16W | [M] |
| R608 | ERJ3GEYJ153V | 15K 1/16W | [M] |
| R609 | ERJ3GEYJ563V | 56K 1/16W | [M] |
| R610 | ERJ3GEYJ563V | 56K 1/16W | [M] |
| R611 | ERJ3GEYJ392V | 3.9K 1/16W | [M] |
| R612 | ERJ3GEYJ392V | 3.9K 1/16W | [M] |
| R613 | ERJ3GEYJ182V | 1.8K 1/16W | [M] |
| R614 | ERJ3GEYJ182V | 1.8K 1/16W | [M] |
| R616 | ERJ3GEYJ471V | 470 1/16W | [M] |
| R618 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R620 | ERJ3GEYJ223V | 22K 1/16W | [M] |
| R622 | ERJ3GEYJ183V | 18K 1/16W | [M] |
| R624 | ERJ3GEYJ223V | 22K 1/16W | [M] |
| R631 | ERJ3GEYJ390V | 39 1/16W | [M] |
| R632 | ERJ3GEYJ390V | 39 1/16W | [M] |
| R633 | ERJ3GEYJ390V | 39 1/16W | [M] |
| R634 | ERJ3GEYJ390V | 39 1/16W | [M] |
| R635 | ERJ3GEYJ100V | 10 1/16W | [M] |
| R636 | ERJ3GEYJ100V | 10 1/16W | [M] |
| R637 | ERJ3GEYJ223V | 22K 1/16W | [M] |
| R638 | ERJ3GEYJ223V | 22K 1/16W | [M] |
| R639 | ERJ3GEYJ561V | 560 1/16W | [M] |
| R640 | ERJ3GEYJ561V | 560 1/16W | [M] |
| R641 | ERJ3GEYJ333V | 33K 1/16W | [M] |
| R642 | ERJ3GEYJ333V | 33K 1/16W | [M] |
| R643 | ERJ3GEYJ333V | 33K 1/16W | [M] |
| R644 | ERJ3GEYJ333V | 33K 1/16W | [M] |
| R645 | ERJ3GEYJ562V | 5.6K 1/16W | [M] |
| R646 | ERJ3GEYJ562V | 5.6K 1/16W | [M] |
| R647 | ERJ3GEYJ473V | 47K 1/16W | [M] |
| R648 | ERJ3GEYJ473V | 47K 1/16W | [M] |
| R651 | ERJ3GEYJ122V | 1.2K 1/16W | [M] |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| R652 | ERJ3GEYJ122V | 1.2K 1/16W | [M] |
| R653 | ERJ3GEYJ122V | 1.2K 1/16W | [M] |
| R654 | ERJ3GEYJ122V | 1.2K 1/16W | [M] |
| R658 | D0GB332JA002 | 3.3K 1/16W | [M] |
| R660 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R661 | ERJ3GEYJ563V | 56K 1/16W | [M] |
| R662 | ERJ3GEY0R00V | 0 1/16W | [M] |
| R663 | ERJ3GEYJ823V | 82K 1/16W | [M] |
| R664 | ERJ3GEYJ823V | 82K 1/16W | [M] |
| R665 | ERJ3GEYJ682V | 6.8K 1/16W | [M] |
| R666 | ERJ3GEYJ823V | 82K 1/16W | [M] |
| R667 | ERJ3GEYJ822V | 8.2K 1/16W | [M] |
| R669 | ERJ3GEYJ561V | 560 1/16W | [M] |
| R670 | ERJ3GEYJ561V | 560 1/16W | [M] |
| R671 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R672 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R673 | ERJ3GEYJ823V | 82K 1/16W | [M] |
| R674 | ERJ3GEYJ823V | 82K 1/16W | [M] |
| R675 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R676 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R677 | ERJ3GEYJ822V | 8.2K 1/16W | [M] |
| R678 | ERJ3GEYJ273V | 27K 1/16W | [M] |
| R679 | ERJ3GEYJ223V | 22K 1/16W | [M] |
| R680 | ERJ3GEYJ183V | 18K 1/16W | [M] |
| R681 | ERJ3GEYJ682V | 6.8K 1/16W | [M] |
| R682 | D0GB333JA002 | 33K 1/16W | [M] |
| R683 | ERJ3GEYJ104V | 100K 1/16W | [M] |
| R684 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R685 | ERJ3GEYJ333V | 33K 1/16W | [M] |
| R686 | ERJ3GEYJ563V | 56K 1/16W | [M] |
| R687 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R688 | ERJ3GEYJ822V | 8.2K 1/16W | [M] |
| R689 | ERJ3GEYJ153V | 15K 1/16W | [M] |
| R690 | ERJ3GEYJ273V | 27K 1/16W | [M] |
| R691 | ERJ3GEYJ473V | 47K 1/16W | [M] |
| R692 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R693 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R694 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R695 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R696 | ERJ3GEYJ122V | 1.2K 1/16W | [M] |
| R697 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R698 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R699 | ERJ3GEYJ221V | 220 1/16W | [M] |
| R701 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R702 | ERJ3GEYJ224V | 220K 1/16W | [M] |
| R703 | ERJ3GEYJ393V | 39K 1/16W | [M] |
| R704 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R705 | ERJ3GEYJ153V | 15K 1/16W | [M] |
| R707 | ERJ3GEYJ273V | 27K 1/16W | [M] |
| R711 | ERJ3GEYJ682V | 6.8K 1/16W | [M] |
| R715 | ERJ3GEYJ472V | 4.7K 1/16W | [M] |
| R751 | ERJ3GEYJ223V | 22K 1/16W | [M] |
| R752 | ERJ3GEYJ223V | 22K 1/16W | [M] |
| R753 | ERJ3GEYJ103V | 10K 1/16W | [M] |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| R754 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R755 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R756 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R757 | ERJ3GEYJ183V | 18K 1/16W | [M] |
| R758 | ERJ3GEYJ183V | 18K 1/16W | [M] |
| R759 | ERJ3GEYJ223V | 22K 1/16W | [M] |
| R760 | ERJ3GEYJ223V | 22K 1/16W | [M] |
| R761 | ERJ3GEYJ273V | 27K 1/16W | [M] |
| R762 | ERJ3GEYJ273V | 27K 1/16W | [M] |
| R763 | ERJ3GEYJ273V | 27K 1/16W | [M] |
| R764 | ERJ3GEYJ273V | 27K 1/16W | [M] |
| R765 | ERJ3GEYJ273V | 27K 1/16W | [M] |
| R771 | ERJ3GEYJ472V | 4.7K 1/16W | [M] |
| R772 | ERJ3GEYJ472V | 4.7K 1/16W | [M] |
| R773 | ERJ3GEYJ472V | 4.7K 1/16W | [M] |
| R774 | ERJ3GEYJ472V | 4.7K 1/16W | [M] |
| R775 | ERJ3GEYJ472V | 4.7K 1/16W | [M] |
| R776 | ERJ3GEYJ183V | 18K 1/16W | [M] |
| R777 | ERJ3GEYJ472V | 4.7K 1/16W | [M] |
| R801 | ERJ3GEYJ681V | 680 1/16W | [M] |
| R803 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R804 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R811 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R812 | ERJ3GEYJ333V | 33K 1/16W | [M] |
| R813 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R814 | ERJ3GEYJ473V | 47K 1/16W | [M] |
| R815 | ERJ3GEYJ221V | 220 1/16W | [M] |
| R816 | ERJ3GEYJ221V | 220 1/16W | [M] |
| R818 | ERJ3GEYJ221V | 220 1/16W | [M] |
| R819 | ERJ3GEYJ221V | 220 1/16W | [M] |
| R820 | ERJ3GEYJ221V | 220 1/16W | [M] |
| R821 | ERJ3GEYJ221V | 220 1/16W | [M] |
| R822 | ERJ3GEYJ221V | 220 1/16W | [M] |
| R823 | ERJ3GEYJ221V | 220 1/16W | [M] |
| R824 | ERJ3GEYJ221V | 220 1/16W | [M] |
| R825 | ERJ3GEYJ221V | 220 1/16W | [M] |
| R826 | ERJ3GEYJ221V | 220 1/16W | [M] |
| R827 | ERJ3GEYJ473V | 47K 1/16W | [M] |
| R828 | ERJ3GEYJ221V | 220 1/16W | [M] |
| R829 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R830 | ERJ3GEYJ221V | 220 1/16W | [M] |
| R831 | ERJ3GEYJ221V | 220 1/16W | [M] |
| R832 | ERJ3GEYJ221V | 220 1/16W | [M] |
| R833 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R834 | ERJ3GEYJ221V | 220 1/16W | [M] |
| R836 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R837 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R840 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R841 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R842 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R843 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R844 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R846 | ERJ3GEYJ473V | 47K 1/16W | [M] |
| R847 | ERJ3GEYJ331V | 330 1/16W | [M] |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| R848 | ERJ3GEYJ331V | 330 1/16W | [M] |
| R849 | ERJ3GEYJ331V | 330 1/16W | [M] |
| R850 | ERJ3GEYJ153V | 15K 1/16W | [M] |
| R851 | ERJ3GEYJ153V | 15K 1/16W | [M] |
| R852 | D0GB101JA002 | 100 1/16W | [M] |
| R853 | ERJ3GEYJ221V | 220 1/16W | [M] |
| R854 | ERJ3GEYJ221V | 220 1/16W | [M] |
| R855 | D0GB101JA002 | 100 1/16W | [M] |
| R858 | ERJ3GEYJ104V | 100K 1/16W | [M] |
| R860 | ERJ3GEYJ331V | 330 1/16W | [M] |
| R861 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R862 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R864 | ERJ3GEYJ221V | 220 1/16W | [M] |
| R865 | ERJ3GEYJ333V | 33K 1/16W | [M] |
| R866 | ERJ3GEYJ221V | 220 1/16W | [M] |
| R867 | ERJ3GEYJ333V | 33K 1/16W | [M] |
| R868 | ERJ3GEYJ331V | 330 1/16W | [M] |
| R869 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R870 | ERJ3GEYJ331V | 330 1/16W | [M] |
| R872 | ERJ3GEYJ1R0V | 1 1/16W | [M] |
| R874 | ERJ3GEYJ1R0V | 1 1/16W | [M] |
| R876 | ERJ3GEYJ1R0V | 1 1/16W | [M] |
| R877 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R879 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R882 | ERJ3GEYJ1R0V | 1 1/16W | [M] |
| R884 | ERJ3GEYJ1R0V | 1 1/16W | [M] |
| R886 | ERJ3GEYJ1R0V | 1 1/16W | [M] |
| R888 | D0GB101JA002 | 100 1/16W | [M] |
| R889 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R890 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R891 | ERJ3GEYJ331V | 330 1/16W | [M] |
| R893 | ERJ3GEYJ221V | 220 1/16W | [M] |
| R894 | ERJ3GEYJ473V | 47K 1/16W | [M] |
| R896 | ERJ3GEYJ223V | 22K 1/16W | [M] |
| R897 | ERJ3GEYJ223V | 22K 1/16W | [M] |
| R898 | ERJ3GEYJ472V | 4.7K 1/16W | [M] |
| R899 | ERJ3GEYJ104V | 100K 1/16W | [M] |
| R1120 | ERDS1TJ474 | 470K 1/2W | [M] |
| R1150 | ERDS2TJ560T | 56 1/4W | [M] |
| R1151 | ERDS2TJ153T | 15K 1/4W | [M] |
| R1152 | ERDS2TJ103T | 10K 1/4W | [M] |
| R1154 | ER0S2THF2701 | 27 1/4W | [M] |
| R1155 | ERDS2TJ103T | 10K 1/4W | [M] |
| R1156 | ER0S2THF1502 | 15 1/4W | [M] |
| R1157 | ER0S2THF6800 | 68 1/4W | [M] |
| R1158 | ERDS1FVJ104T | 100K 1/2W | [M] |
| R1200 | ERJ6GEYG393V | 39K 1/10W | [M] |
| R1201 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R1201 | ERJ6GEY0R00V | 0 1/10W | [M] |
| R1202 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R1204 | ERJ6GEYG472V | 4.7K 1/10W | [M] |
| R1206 | ERJ6GEYG242V | 2.4K 1/10W | [M] |
| R1207 | ERJ6GEYJ103V | 10K 1/10W | [M] |
| R1208 | ERJ6GEYG241V | 240 1/10W | [M] |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| R1209 | ERJ6GEYJ102V | 1K 1/10W | [M] |
| R1210 | ERJ6GEYG362V | 3.6K 1/10W | [M] |
| R1211 | ERJ6GEYJ472V | 4.7K 1/10W | [M] |
| R1212 | ERJ6GEYJ103V | 10K 1/10W | [M] |
| R1213 | ERJ6GEYJ222V | 2.2K 1/10W | [M] |
| R1217 | ERJ3GEYJ822V | 8.2K 1/16W | [M] |
| R1218 | ERJ3GEYJ822V | 8.2K 1/16W | [M] |
| R1221 | ERJ3GEYJ1R5V | 1.5 1/16W | [M] |
| R1225 | D0GB101JA002 | 100 1/16W | [M] |
| R1226 | D0GB101JA002 | 100 1/16W | [M] |
| R1227 | D0GB101JA002 | 100 1/16W | [M] |
| R1228 | D0GB101JA002 | 100 1/16W | [M] |
| R1229 | D0GB101JA002 | 100 1/16W | [M] |
| R1236 | ERJ3RBD102V | 1K 3W | [M] |
| R1237 | ERJ3GEYJ153V | 15K 1/16W | [M] |
| R1238 | ERJ3RBD102V | 1K 3W | [M] |
| R1239 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R1240 | ERJ3GEYJ472V | 4.7K 1/16W | [M] |
| R1241 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R1242 | D0GB101JA002 | 100 1/16W | [M] |
| R1243 | ERJ3GEYJ221V | 220 1/16W | [M] |
| R1244 | ERJ3GEYJ105V | 1M 1/16W | [M] |
| R1245 | ERJ3GEYJ221V | 220 1/16W | [M] |
| R1246 | ERJ3GEYJ221V | 220 1/16W | [M] |
| R1247 | ERJ3GEYJ221V | 220 1/16W | [M] |
| R1248 | ERJ3GEYJ221V | 220 1/16W | [M] |
| R1249 | ERJ3GEYJ221V | 220 1/16W | [M] |
| R1250 | ERJ3GEYJ122V | 1.2K 1/16W | [M] |
| R1251 | ERJ3GEYJ471V | 470 1/16W | [M] |
| R1252 | ERJ3GEYJ471V | 470 1/16W | [M] |
| R1253 | ERJ3GEYJ471V | 470 1/16W | [M] |
| R1254 | ERJ3GEYJ471V | 470 1/16W | [M] |
| R1255 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R1256 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R1257 | ERJ3GEYJ472V | 4.7K 1/16W | [M] |
| R1258 | ERJ3GEYJ472V | 4.7K 1/16W | [M] |
| R1259 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R1260 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R1261 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R1262 | ERJ3GEYJ221V | 220 1/16W | [M] |
| R1263 | ERJ3GEYJ472V | 4.7K 1/16W | [M] |
| R1274 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R1275 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R1276 | ERJ3GEYJ331V | 330 1/16W | [M] |
| R1277 | ERJ3GEYJ331V | 330 1/16W | [M] |
| R1278 | ERJ3GEYJ331V | 330 1/16W | [M] |
| R1279 | ERJ3GEYJ331V | 330 1/16W | [M] |
| R1280 | ERJ3GEYJ331V | 330 1/16W | [M] |
| R1281 | ERJ3GEYJ1R5V | 1.5 1/16W | [M] |
| R1282 | ERJ3GEYJ1R5V | 1.5 1/16W | [M] |
| R1283 | D0GB101JA002 | 100 1/16W | [M] |
| R1284 | D0GB101JA002 | 100 1/16W | [M] |
| R1285 | D0GB101JA002 | 100 1/16W | [M] |
| R1286 | D0GB101JA002 | 100 1/16W | [M] |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| **R1287** | **D0GB101JA002** | **100 1/16W** | **[M]** |
| **R1305** | **ERJ6GEYJ124V** | **120K 1/10W** | **[M]** |
| **R1309** | **ERJ6GEYJ103V** | **10K 1/10W** | **[M]** |
| **R1400** | **ERJ6GEYJ105V** | **1M 1/10W** | **[M]** |
| **R1401** | **ERJ6GEYJ104V** | **100K 1/10W** | **[M]** |
| **R1402** | **ERJ6GEYJ103V** | **10K 1/10W** | **[M]** |
| **R1403** | **ERJ6RBD222V** | **2.2K 1/10W** | **[M]** |
| **R1404** | **ERJ6GEYJ470V** | **47 1/10W** | **[M]** |
| **R1405** | **ERJ6RBD222V** | **2.2K 1/10W** | **[M]** |
| **R1406** | **ERJ6GEYJ103V** | **10K 1/10W** | **[M]** |
| **R1407** | **ERJ6GEYJ151V** | **150 1/10W** | **[M]** |
| **R1408** | **D1BDR2200001** | **0.22 1/16W** | **[M]** |
| **R1409** | **D1BDR2200001** | **0.22 1/16W** | **[M]** |
| **R1411** | **ERJ6GEYJ151V** | **150 1/10W** | **[M]** |
| **R1413** | **ERJ6GEYJ4R7V** | **4.7 1/10W** | **[M]** |
| **R1414** | **D1BDR2200001** | **0.22 1/16W** | **[M]** |
| **R1415** | **D1BDR2200001** | **0.22 1/16W** | **[M]** |
| **R1419** | **ERJ6GEYJ4R7V** | **4.7 1/10W** | **[M]** |
| **R1421** | **ERJ6GEYJ223V** | **22K 1/10W** | **[M]** |
| **R1422** | **ERJ6GEYJ393V** | **39K 1/10W** | **[M]** |
| **R1423** | **ERJ6RBD272V** | **2.7K 1/10W** | **[M]** |
| **R1424** | **ERJ6RBD222V** | **2.2K 1/10W** | **[M]** |
| **R1450** | **ERJ6ENF3903V** | **39 1/10W** | **[M]** |
| **R1451** | **ERJ6RBD333V** | **33K 1/10W** | **[M]** |
| **R1501** | **ERJ3GEYJ822V** | **8.2K 1/16W** | **[M]** |
| **R1502** | **ERJ3GEYJ332V** | **3.3K 1/16W** | **[M]** |
| **R1503** | **D0GB101JA002** | **100 1/16W** | **[M]** |
| **R1504** | **ERDS2TJ271T** | **270 1/4W** | **[M]** |
| **R1506** | **ERDS2TJ271T** | **270 1/4W** | **[M]** |
| **R1507** | **ERJ3RED330V** | **33 3W** | **[M]** |
| **R1508** | **ERJ3RBD201V** | **200 3W** | **[M]** |
| **R1509** | **ERJ3RBD102V** | **1K 3W** | **[M]** |
| **R1510** | **ERJ3RED220V** | **22 3W** | **[M]** |
| **R1511** | **ERJ3RBD182V** | **1.8K 3W** | **[M]** |
| **R1512** | **ERJ3RBD202V** | **2K 3W** | **[M]** |
| **R1515** | **ERDS2TJ271T** | **270 1/4W** | **[M]** |
| **R1516** | **ERDS2TJ271T** | **270 1/4W** | **[M]** |
| **R1581** | **ERJ6GEYJ103V** | **10K 1/10W** | **[M]** |
| **R1582** | **ERJ6GEYJ103V** | **10K 1/10W** | **[M]** |
| **R1583** | **ERJ6GEYJ334V** | **330K 1/10W** | **[M]** |
| **R1584** | **ERJ6GEYJ223V** | **22K 1/10W** | **[M]** |
| **R3001** | **ERJ3GEYJ221V** | **220 1/16W** | **[M]** |
| **R3017** | **ERJ3GEYJ102V** | **1K 1/16W** | **[M]** |
| **R3018** | **ERJ3GEYJ102V** | **1K 1/16W** | **[M]** |
| **R3025** | **ERJ3RBD153V** | **15K 3W** | **[M]** |
| **R3026** | **ERJ3GEYJ105V** | **1M 1/16W** | **[M]** |
| **R3027** | **ERJ3GEY0R00V** | **0 1/16W** | **[M]** |
| **R3028** | **ERJ3GEYJ471V** | **470 1/16W** | **[M]** |
| **R3029** | **ERJ3GEY0R00V** | **0 1/16W** | **[M]** |
| **R3030** | **ERJ3GEYJ750V** | **75 1/16W** | **[M]** |
| **R3031** | **ERJ3GEY0R00V** | **0 1/16W** | **[M]** |
| **R3032** | **ERJ3GEYJ103V** | **10K 1/16W** | **[M]** |
| **R3033** | **ERJ3GEYJ103V** | **10K 1/16W** | **[M]** |
| **R3036** | **ERJ3GEYJ103V** | **10K 1/16W** | **[M]** |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| R3038 | ERJ3GEYJ330V | 33 1/16W | [M] |
| R3039 | ERJ3GEYJ221V | 220 1/16W | [M] |
| R3040 | ERJ3GEYJ221V | 220 1/16W | [M] |
| R3041 | ERJ3RBD104V | 100K 3W | [M] |
| R3084 | ERJ3GEYJ912V | 9.1K 1/16W | [M] |
| R3085 | ERJ3GEYJ912V | 9.1K 1/16W | [M] |
| R3405 | ERJ2GEJ103X | 10K 2W | [M] |
| R3407 | ERJ2GE0R00X | 0 2W | [M] |
| R3409 | ERJ2GE0R00X | 0 2W | [M] |
| R3410 | ERJ2GEJ101X | 100 2W | [M] |
| R3411 | ERJ2GEJ101X | 100 2W | [M] |
| R3412 | ERJ2GEJ220X | 22 2W | [M] |
| R3414 | ERJ2GEJ330X | 33 2W | [M] |
| R3416 | ERJ2GEJ472X | 4.7K 2W | [M] |
| R3417 | ERJ2GEJ103X | 10K 2W | [M] |
| R3418 | ERJ2GEJ103X | 10K 2W | [M] |
| R3419 | ERJ2GEJ220X | 22 2W | [M] |
| R3420 | ERJ2GEJ220X | 22 2W | [M] |
| R3421 | ERJ2GEJ220X | 22 2W | [M] |
| R3422 | ERJ2GEJ220X | 22 2W | [M] |
| R3423 | ERJ2GEJ220X | 22 2W | [M] |
| R3427 | ERJ2GEJ220X | 22 2W | [M] |
| R3430 | ERJ2GEJ220X | 22 2W | [M] |
| R3432 | ERJ2GEJ220X | 22 2W | [M] |
| R3433 | ERJ2GEJ220X | 22 2W | [M] |
| R3434 | ERJ2GEJ220X | 22 2W | [M] |
| R3436 | ERJ2GEJ470X | 47 2W | [M] |
| R3440 | ERJ2GEJ103X | 10K 2W | [M] |
| R3442 | ERJ2GEJ103X | 10K 2W | [M] |
| R3443 | ERJ2GE0R00X | 0 2W | [M] |
| R3444 | ERJ2GE0R00X | 0 2W | [M] |
| R3445 | ERJ2GE0R00X | 0 2W | [M] |
| R3447 | ERJ2RHD682X | 6.8K 2W | [M] |
| R3448 | ERJ2GEJ562X | 5.6K 2W | [M] |
| R3449 | ERJ2RHD682X | 6.8K 2W | [M] |
| R3450 | ERJ2GEJ104X | 100K 2W | [M] |
| R3451 | ERJ2GEJ220X | 22 2W | [M] |
| R3452 | ERJ2GE0R00X | 0 2W | [M] |
| R3453 | ERJ2GEJ220X | 22 2W | [M] |
| R3454 | ERJ2GEJ390X | 39 2W | [M] |
| R3455 | ERJ2GEJ220X | 22 2W | [M] |
| R3456 | ERJ2GEJ470X | 47 2W | [M] |
| R3457 | ERJ2GE0R00X | 0 2W | [M] |
| R3458 | ERJ2GEJ220X | 22 2W | [M] |
| R3460 | ERJ2GEJ470X | 47 2W | [M] |
| R3461 | ERJ2GEJ470X | 47 2W | [M] |
| R3462 | ERJ2GEJ470X | 47 2W | [M] |
| R3463 | ERJ2GE0R00X | 0 2W | [M] |
| R3464 | ERJ2GE0R00X | 0 2W | [M] |
| R3472 | ERJ2GEJ220X | 22 2W | [M] |
| R3473 | ERJ2GEJ220X | 22 2W | [M] |
| R3476 | ERJ2GEJ102X | 1K 2W | [M] |
| R3501 | ERJ2GEJ220X | 22 2W | [M] |
| R3502 | ERJ2GEJ220X | 22 2W | [M] |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| R3503 | ERJ2GEJ220X | 22 2W | [M] |
| R3509 | ERJ2GEJ330X | 33 2W | [M] |
| R3510 | ERJ2GEJ103X | 10K 2W | [M] |
| R3511 | ERJ2GEJ103X | 10K 2W | [M] |
| R3514 | ERJ2GEJ105X | 1M 2W | [M] |
| R3519 | ERJ2GEJ330X | 33 2W | [M] |
| R3520 | ERJ2GEJ330X | 33 2W | [M] |
| R3521 | ERJ2GEJ330X | 33 2W | [M] |
| R3522 | ERJ2GEJ330X | 33 2W | [M] |
| R3523 | ERJ2GEJ103X | 10K 2W | [M] |
| R3524 | ERJ2GEJ330X | 33 2W | [M] |
| R3525 | ERJ2GEJ103X | 10K 2W | [M] |
| R3526 | ERJ2GEJ220X | 22 2W | [M] |
| R3527 | ERJ2GEJ220X | 22 2W | [M] |
| R3528 | ERJ2GEJ220X | 22 2W | [M] |
| R3530 | ERJ2GEJ102X | 1K 2W | [M] |
| R3531 | ERJ2GEJ820X | 82 2W | [M] |
| R3532 | ERJ2GEJ472X | 4.7K 2W | [M] |
| R3533 | ERJ2GEJ101X | 100 2W | [M] |
| R3535 | ERJ2GEJ820X | 82 2W | [M] |
| R3537 | ERJ2GEJ562X | 5.6K 2W | [M] |
| R3541 | ERJ2GEJ103X | 10K 2W | [M] |
| R3542 | ERJ2GEJ103X | 10K 2W | [M] |
| R3543 | ERJ2GE0R00X | 0 2W | [M] |
| R3548 | ERJ2GEJ330X | 33 2W | [M] |
| R3901 | ERJ3GEYJ750V | 75 1/16W | [M] |
| R3902 | ERJ3GEYJ750V | 75 1/16W | [M] |
| R3903 | ERJ3GEYJ750V | 75 1/16W | [M] |
| R3904 | ERJ3GEYJ750V | 75 1/16W | [M] |
| R3905 | ERJ3GEYJ750V | 75 1/16W | [M] |
| R3906 | ERJ3GEYJ750V | 75 1/16W | [M] |
| R3907 | ERJ3GEYJ750V | 75 1/16W | [M] |
| R3908 | ERJ3GEYJ750V | 75 1/16W | [M] |
| R3920 | ERJ3GEYJ750V | 75 1/16W | [M] |
| R3921 | ERJ3GEYJ750V | 75 1/16W | [M] |
| R3922 | ERJ3GEYJ750V | 75 1/16W | [M] |
| R3923 | ERJ3GEYJ750V | 75 1/16W | [M] |
| R3924 | ERJ3GEYJ750V | 75 1/16W | [M] |
| R3926 | ERJ3GEYJ750V | 75 1/16W | [M] |
| R3927 | ERJ3GEYJ750V | 75 1/16W | [M] |
| R4001 | ERJ3GEYJ104V | 100K 1/16W | [M] |
| R4002 | ERJ3GEYJ104V | 100K 1/16W | [M] |
| R4003 | ERJ3GEYJ104V | 100K 1/16W | [M] |
| R4004 | ERJ3GEYJ104V | 100K 1/16W | [M] |
| R4005 | D0GB101JA002 | 100 1/16W | [M] |
| R4006 | D0GB101JA002 | 100 1/16W | [M] |
| R4008 | ERJ3GEY0R00V | 0 1/16W | [M] |
| R4011 | ERJ6GEYJ102V | 1K 1/10W | [M] |
| R4012 | ERJ6GEYJ102V | 1K 1/10W | [M] |
| R4013 | ERJ6GEYJ102V | 1K 1/10W | [M] |
| R4014 | ERJ6GEYJ102V | 1K 1/10W | [M] |
| R4015 | ERJ3GEYJ104V | 100K 1/16W | [M] |
| R4016 | ERJ3GEYJ104V | 100K 1/16W | [M] |
| R4017 | ERJ3GEY0R00V | 0 1/16W | [M] |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| R4018 | ERJ3GEY0R00V | 0 1/16W | [M] |
| R4019 | ERJ3GEY0R00V | 0 1/16W | [M] |
| R4020 | ERJ3GEY0R00V | 0 1/16W | [M] |
| R4024 | D0GB101JA002 | 100 1/16W | [M] |
| R4025 | D0GB101JA002 | 100 1/16W | [M] |
| R4026 | ERJ3RBD123V | 12K 3W | [M] |
| R4027 | ERJ3RBD622V | 6.2K 3W | [M] |
| R4028 | ERJ3RBD123V | 12K 3W | [M] |
| R4029 | ERJ3RBD622V | 6.2K 3W | [M] |
| R4031 | ERJ6GEYJ102V | 1K 1/10W | [M] |
| R4032 | ERJ6GEYJ102V | 1K 1/10W | [M] |
| R4035 | ERJ3GEY0R00V | 0 1/16W | [M] |
| R4036 | ERJ3GEY0R00V | 0 1/16W | [M] |
| R4037 | ERJ3GEYJ473V | 47K 1/16W | [M] |
| R4038 | ERJ3GEYJ473V | 47K 1/16W | [M] |
| R4039 | ERJ3GEYJ221V | 220 1/16W | [M] |
| R4042 | ERJ3GEYJ221V | 220 1/16W | [M] |
| R4043 | ERJ3RBD392V | 3.9K 3W | [M] |
| R4044 | ERJ3RBD392V | 3.9K 3W | [M] |
| R4045 | ERJ3RBD622V | 6.2K 3W | [M] |
| R4046 | ERJ3RBD622V | 6.2K 3W | [M] |
| R4049 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R4050 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R4051 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R4052 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R4059 | ERJ3GEYJ473V | 47K 1/16W | [M] |
| R4060 | ERJ3GEYJ473V | 47K 1/16W | [M] |
| R4061 | ERJ3GEYJ681V | 680 1/16W | [M] |
| R4062 | ERJ3GEYJ681V | 680 1/16W | [M] |
| R4063 | D0GB272JA002 | 2.7K 1/16W | [M] |
| R4064 | D0GB272JA002 | 2.7K 1/16W | [M] |
| R4065 | ERJ3GEYJ681V | 680 1/16W | [M] |
| R4066 | ERJ3GEYJ681V | 680 1/16W | [M] |
| R4067 | D0GB272JA002 | 2.7K 1/16W | [M] |
| R4068 | D0GB272JA002 | 2.7K 1/16W | [M] |
| R4069 | ERJ3GEYJ221V | 220 1/16W | [M] |
| R4070 | ERJ3GEYJ221V | 220 1/16W | [M] |
| R4071 | ERJ3GEYJ221V | 220 1/16W | [M] |
| R4072 | ERJ3GEYJ221V | 220 1/16W | [M] |
| R4074 | ERJ3GEY0R00V | 0 1/16W | [M] |
| R4075 | ERJ3GEY0R00V | 0 1/16W | [M] |
| R4077 | ERJ3GEY0R00V | 0 1/16W | [M] |
| R4078 | ERJ3GEY0R00V | 0 1/16W | [M] |
| R4082 | ERJ3GEY0R00V | 0 1/16W | [M] |
| R4401 | ERJ2GE0R00X | 0 2W | [M] |
| R4402 | ERJ2GE0R00X | 0 2W | [M] |
| R4403 | ERJ2GE0R00X | 0 2W | [M] |
| R4404 | ERJ2GE0R00X | 0 2W | [M] |
| R4405 | ERJ2GE0R00X | 0 2W | [M] |
| R4407 | ERJ2GEJ221X | 220 2W | [M] |
| R4408 | ERJ2GE0R00X | 0 2W | [M] |
| R4409 | ERJ2GE0R00X | 0 2W | [M] |
| R4410 | ERJ2GE0R00X | 0 2W | [M] |
| R4411 | ERJ2GE0R00X | 0 2W | [M] |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| R4415 | ERJ2GE0R00X | 0 2W | [M] |
| R4428 | ERJ3GEY0R00V | 0 1/16W | [M] |
| R4433 | ERJ3GEY0R00V | 0 1/16W | [M] |
| R4434 | ERJ3GEY0R00V | 0 1/16W | [M] |
| R4435 | ERJ3GEY0R00V | 0 1/16W | [M] |
| R4436 | ERJ2GEJ221X | 220 2W | [M] |
| R4437 | ERJ2GE0R00X | 0 2W | [M] |
| R4438 | ERJ2GE0R00X | 0 2W | [M] |
| R4439 | ERJ2GE0R00X | 0 2W | [M] |
| R4441 | ERJ2GEJ331X | 330 2W | [M] |
| R4442 | ERJ2GEJ331X | 330 2W | [M] |
| R4443 | ERJ2GEJ331X | 330 2W | [M] |
| R4444 | ERJ2GEJ331X | 330 2W | [M] |
| R4445 | ERJ2GEJ331X | 330 2W | [M] |
| R4446 | ERJ2GE0R00X | 0 2W | [M] |
| R4447 | ERJ2GEJ331X | 330 2W | [M] |
| R4448 | ERJ2GE0R00X | 0 2W | [M] |
| R4449 | ERJ2GE0R00X | 0 2W | [M] |
| R4450 | ERJ2GE0R00X | 0 2W | [M] |
| R4453 | ERJ2GEJ562X | 5.6K 2W | [M] |
| R4454 | ERJ2GE0R00X | 0 2W | [M] |
| R4455 | ERJ2GE0R00X | 0 2W | [M] |
| R4456 | ERJ2GE0R00X | 0 2W | [M] |
| R4457 | ERJ2GEJ183X | 18K 2W | [M] |
| R4458 | ERJ2GEJ393X | 39K 2W | [M] |
| R6001 | ERJ2GEJ333X | 33K 2W | [M] |
| R6002 | ERJ2GEJ332X | 3.3K 2W | [M] |
| R6003 | ERJ2GEJ102X | 1K 2W | [M] |
| R6004 | ERJ2GEJ472X | 4.7K 2W | [M] |
| R6005 | ERJ2GEJ103X | 10K 2W | [M] |
| R6006 | ERJ2GEJ153X | 15K 2W | [M] |
| R6007 | ERJ2GEJ472X | 4.7K 2W | [M] |
| R6008 | ERJ2GEJ103X | 10K 2W | [M] |
| R6009 | ERJ2GEJ330X | 33 2W | [M] |
| R6010 | ERJ2GEJ330X | 33 2W | [M] |
| R6011 | ERJ2GEJ332X | 3.3K 2W | [M] |
| R6013 | ERJ2GEJ103X | 10K 2W | [M] |
| R6014 | ERJ2GEJ104X | 100K 2W | [M] |
| R6015 | ERJ2GEJ104X | 100K 2W | [M] |
| R6016 | ERJ2GEJ104X | 100K 2W | [M] |
| R6017 | ERJ2GEJ104X | 100K 2W | [M] |
| R6018 | ERJ2GEJ220X | 22 2W | [M] |
| R6019 | ERJ2GEJ220X | 22 2W | [M] |
| R6020 | ERJ2GE0R00X | 0 2W | [M] |
| R6021 | ERJ2GEJ470X | 47 2W | [M] |
| R6022 | ERJ2GEJ470X | 47 2W | [M] |
| R6023 | ERJ2GEJ332X | 3.3K 2W | [M] |
| R6024 | ERJ2GEJ103X | 10K 2W | [M] |
| R6028 | ERJ2GEJ470X | 47 2W | [M] |
| R6029 | ERJ2GEJ103X | 10K 2W | [M] |
| R6031 | ERJ2GEJ470X | 47 2W | [M] |
| R6035 | ERJ2GEJ470X | 47 2W | [M] |
| R6036 | ERJ2GEJ332X | 3.3K 2W | [M] |
| R6037 | ERJ2GEJ333X | 33K 2W | [M] |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| R6039 | ERJ2GEJ103X | 10K 2W | [M] |
| R6040 | ERJ2GEJ332X | 3.3K 2W | [M] |
| R6701 | ERJ2GEJ104X | 100K 2W | [M] |
| R6703 | ERJ2GEJ103X | 10K 2W | [M] |
| R6706 | ERJ2GEJ470X | 47 2W | [M] |
| R6707 | ERJ2GEJ470X | 47 2W | [M] |
| R6709 | ERJ2GEJ332X | 3.3K 2W | [M] |
| R6710 | ERJ2GEJ332X | 3.3K 2W | [M] |
| R6711 | ERJ2GEJ470X | 47 2W | [M] |
| R6712 | ERJ2GEJ470X | 47 2W | [M] |
| R6713 | ERJ2GEJ103X | 10K 2W | [M] |
| R6714 | ERJ2GEJ333X | 33K 2W | [M] |
| R6715 | ERJ2GEJ470X | 47 2W | [M] |
| R6716 | ERJ2GEJ333X | 33K 2W | [M] |
| R6717 | ERJ2GEJ333X | 33K 2W | [M] |
| R6718 | ERJ2GE0R00X | 0 2W | [M] |
| R6720 | ERJ2GEJ470X | 47 2W | [M] |
| R6721 | ERJ2GEJ470X | 47 2W | [M] |
| R6722 | ERJ2GEJ470X | 47 2W | [M] |
| R6723 | ERJ2GEJ470X | 47 2W | [M] |
| R6724 | ERJ2GEJ470X | 47 2W | [M] |
| R6725 | ERJ2GEJ470X | 47 2W | [M] |
| R6726 | ERJ2GEJ470X | 47 2W | [M] |
| R6727 | ERJ2GEJ470X | 47 2W | [M] |
| R6728 | ERJ2GEJ470X | 47 2W | [M] |
| R6729 | ERJ2GEJ104X | 100K 2W | [M] |
| R6730 | ERJ2GEJ103X | 10K 2W | [M] |
| R6731 | ERJ2GEJ222X | 2.2K 2W | [M] |
| R6733 | ERJ2GEJ103X | 10K 2W | [M] |
| R6735 | ERJ2GEJ472X | 4.7K 2W | [M] |
| R6737 | ERJ2GEJ470X | 47 2W | [M] |
| R6738 | ERJ2GEJ470X | 47 2W | [M] |
| R6739 | ERJ2GEJ102X | 1K 2W | [M] |
| R6750 | ERJ2GEJ470X | 47 2W | [M] |
| R6751 | ERJ2GEJ470X | 47 2W | [M] |
| R6752 | ERJ2GEJ101X | 100 2W | [M] |
| R6753 | ERJ2GEJ470X | 47 2W | [M] |
| R6754 | ERJ2GEJ470X | 47 2W | [M] |
| R6755 | ERJ2GEJ470X | 47 2W | [M] |
| R6756 | ERJ2GEJ470X | 47 2W | [M] |
| R7001 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R7002 | ERJ3GEYJ750V | 75 1/16W | [M] |
| R7003 | ERJ3GEYJ750V | 75 1/16W | [M] |
| R7004 | ERJ3GEYJ750V | 75 1/16W | [M] |
| R7007 | D0GB272JA002 | 2.7K 1/16W | [M] |
| R7008 | D0GB272JA002 | 2.7K 1/16W | [M] |
| R7009 | ERJ3GEYJ222V | 2.2K 1/16W | [M] |
| R7011 | ERJ3GEYJ391V | 390 1/16W | [M] |
| R7012 | ERJ3GEYJ221V | 220 1/16W | [M] |
| R7013 | ERJ3GEYJ391V | 390 1/16W | [M] |
| R7014 | ERJ3GEYJ391V | 390 1/16W | [M] |
| R7015 | ERJ3GEYJ391V | 390 1/16W | [M] |
| R7016 | ERJ3GEYJ391V | 390 1/16W | [M] |
| R7017 | ERJ3GEYJ470V | 47 1/16W | [M] |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| R7018 | D0GB101JA002 | 100 1/16W | [M] |
| R7021 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R7022 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R7023 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R7024 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R7025 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R7026 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R7403 | D0GB101JA002 | 100 1/16W | [M] |
| R7404 | D0GB101JA002 | 100 1/16W | [M] |
| R7406 | D0GB101JA002 | 100 1/16W | [M] |
| R7407 | D0GB101JA002 | 100 1/16W | [M] |
| R7418 | ERG2SJ471E | 470 2W | [M] |
| R7419 | ERG2SJ471E | 470 2W | [M] |
| R7442 | ERJ3RBD222V | 2.2K 3W | [M] |
| R7443 | ERJ3RBD102V | 1K 3W | [M] |
| R7444 | ERJ3RBD153V | 15K 3W | [M] |
| R7445 | ERJ3RBD222V | 2.2K 3W | [M] |
| R7446 | ERJ3RBD133V | 13K 3W | [M] |
| R7452 | ERJ3GEYJ681V | 680 1/16W | [M] |
| R7454 | ERJ3GEY0R00V | 0 1/16W | [M] |
| R7501 | ERJ3GEYJ683V | 68K 1/16W | [M] |
| R7502 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R7503 | ERJ3GEYJ683V | 68K 1/16W | [M] |
| R7504 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R7505 | ERJ3RBD273V | 27K 3W | [M] |
| R7507 | ERDS2TJ561T | 560 1/4W | [M] |
| R7508 | ERDS2TJ2R2T | 2.2 1/4W | [M] |
| R7509 | ERJ3GEYJ333V | 33K 1/16W | [M] |
| R7510 | D0GB272JA002 | 2.7K 1/16W | [M] |
| R7511 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R7512 | ERJ3GEYJ473V | 47K 1/16W | [M] |
| R7513 | ERJ3GEYJ473V | 47K 1/16W | [M] |
| R7514 | D0GB101JA002 | 100 1/16W | [M] |
| R7516 | ERJ3GEY0R00V | 0 1/16W | [M] |
| R7518 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R7519 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R7520 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R7521 | ERJ3GEYG152V | 1.5K 1/16W | [M] |
| R7522 | ERJ3GEYG562V | 5.6K 1/16W | [M] |
| R7523 | ERJ3GEYG153V | 15K 1/16W | [M] |
| R7524 | ERJ3GEYJ683V | 68K 1/16W | [M] |
| R7525 | ERDS1FVJ121T | 120 1/2W | [M] |
| R7526 | ERDS1FVJ121T | 120 1/2W | [M] |
| R7527 | ERJ3GEYJ473V | 47K 1/16W | [M] |
| R7528 | ERJ3GEYJ472V | 4.7K 1/16W | [M] |
| R7530 | ERJ3GEYJ473V | 47K 1/16W | [M] |
| R7531 | ERJ3GEYJ473V | 47K 1/16W | [M] |
| R7532 | ERJ3GEYJ473V | 47K 1/16W | [M] |
| R7533 | ERJ3GEYJ473V | 47K 1/16W | [M] |
| R7534 | D0GB101JA002 | 100 1/16W | [M] |
| R7535 | D0GB101JA002 | 100 1/16W | [M] |
| R7536 | D0GB101JA002 | 100 1/16W | [M] |
| R7537 | D0GB101JA002 | 100 1/16W | [M] |
| R7538 | ERJ3GEYJ472V | 4.7K 1/16W | [M] |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| R7539 | ERJ3GEY0R00V | 0 1/16W | [M] |
| R7540 | ERJ3GEYJ274V | 270K 1/16W | [M] |
| R7541 | ERJ3GEY0R00V | 0 1/16W | [M] |
| R7542 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R7543 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R7544 | ERJ3GEYJ683V | 68K 1/16W | [M] |
| R7545 | ERJ3GEYJ221V | 220 1/16W | [M] |
| R7547 | ERJ3GEYJ331V | 330 1/16W | [M] |
| R7548 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R7549 | ERJ3GEYJ511V | 510 1/16W | [M] |
| R7550 | ERJ3GEYJ202V | 2K 1/16W | [M] |
| R7551 | ERJ3GEYJ202V | 2K 1/16W | [M] |
| R7552 | ERJ3GEYJ331V | 330 1/16W | [M] |
| R7553 | ERJ3GEYJ331V | 330 1/16W | [M] |
| R7554 | ERJ3GEYJ331V | 330 1/16W | [M] |
| R7556 | D0GB101JA002 | 100 1/16W | [M] |
| R7557 | D0GB101JA002 | 100 1/16W | [M] |
| R7561 | ERDS2TJ392T | 3.9K 1/4W | [M] |
| R7562 | D0GB101JA002 | 100 1/16W | [M] |
| R7563 | D0GB101JA002 | 100 1/16W | [M] |
| R7564 | D0GB101JA002 | 100 1/16W | [M] |
| R7569 | D0GB101JA002 | 100 1/16W | [M] |
| R7570 | ERJ3GEYJ104V | 100K 1/16W | [M] |
| R7583 | ERJ3GEYJ473V | 47K 1/16W | [M] |
| R7584 | ERJ3GEYJ473V | 47K 1/16W | [M] |
| R7585 | ERJ3GEYJ223V | 22K 1/16W | [M] |
| R7588 | ERJ3GEYJ472V | 4.7K 1/16W | [M] |
| R7589 | ERJ3RBD822V | 8.2K 3W | [M] |
| R7590 | ERJ3RBD822V | 8.2K 3W | [M] |
| R7591 | ERJ3RBD822V | 8.2K 3W | [M] |
| R7595 | ERJ3GEYJ473V | 47K 1/16W | [M] |
| R7596 | ERJ3GEYJ473V | 47K 1/16W | [M] |
| R7597 | ERJ3GEYJ153V | 15K 1/16W | [M] |
| R7598 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R7599 | ERJ3GEYJ473V | 47K 1/16W | [M] |
| R7600 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R7601 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R7602 | ERJ3GEYJ821V | 820 1/16W | [M] |
| R7603 | ERJ3GEYJ183V | 18K 1/16W | [M] |
| R7611 | D0GB101JA002 | 100 1/16W | [M] |
| R7613 | D0GB101JA002 | 100 1/16W | [M] |
| R7626 | D0GB101JA002 | 100 1/16W | [M] |
| R7627 | D0GB101JA002 | 100 1/16W | [M] |
| R7628 | D0GB101JA002 | 100 1/16W | [M] |
| R7630 | ERJ3GEYJ273V | 27K 1/16W | [M] |
| R7633 | ERJ3GEYJ223V | 22K 1/16W | [M] |
| R7636 | D0GB101JA002 | 100 1/16W | [M] |
| R7637 | D0GB101JA002 | 100 1/16W | [M] |
| R7638 | D0GB101JA002 | 100 1/16W | [M] |
| R7802 | ERJ3GEYJ222V | 2.2K 1/16W | [M] |
| R7803 | D0GB332JA002 | 3.3K 1/16W | [M] |
| R7804 | D0GB332JA002 | 3.3K 1/16W | [M] |
| R7805 | ERJ3GEYJ562V | 5.6K 1/16W | [M] |
| R7808 | D0GB272JA002 | 2.7K 1/16W | [M] |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| R8001 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R8002 | D0GB101JA002 | 100 1/16W | [M] |
| R8003 | D0GB101JA002 | 100 1/16W | [M] |
| R8004 | D0GB101JA002 | 100 1/16W | [M] |
| R8005 | D0GB101JA002 | 100 1/16W | [M] |
| R8006 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R8009 | D0GB332JA002 | 3.3K 1/16W | [M] |
| R8012 | ERJ3GEY0R00V | 0 1/16W | [M] |
| R8013 | ERJ3GEYJ472V | 4.7K 1/16W | [M] |
| R8014 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R8016 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R8017 | ERDS1FVJ121T | 120 1/2W | [M] |
| R8018 | ERJ3GEYJ220V | 22 1/16W | [M] |
| R8021 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R8023 | ERJ3GEYJ473V | 47K 1/16W | [M] |
| R8026 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R8027 | ERJ3GEYJ472V | 4.7K 1/16W | [M] |
| R8028 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R8030 | ERJ3GEYJ221V | 220 1/16W | [M] |
| R8031 | ERJ3GEYJ221V | 220 1/16W | [M] |
| R8035 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R8036 | ERJ3GEY0R00V | 0 1/16W | [M] |
| R8039 | D0GB101JA002 | 100 1/16W | [M] |
| R8040 | D0GB101JA002 | 100 1/16W | [M] |
| R8041 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R8042 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R50001 | ERJ2GEJ390X | 39 2W | [M] |
| R50002 | ERJ2GE0R00X | 0 2W | [M] |
| R50003 | ERJ2GEJ390X | 39 2W | [M] |
| R50004 | ERJ2GE0R00X | 0 2W | [M] |
| R50006 | ERJ2GEJ470X | 47 2W | [M] |
| R50007 | ERJ2GEJ470X | 47 2W | [M] |
| R50008 | ERJ2GEJ100X | 10 2W | [M] |
| R50009 | ERJ2GEJ103X | 10K 2W | [M] |
| R50010 | ERJ2RHD332X | 3.3K 2W | [M] |
| R50011 | ERJ2RHD223X | 22K 2W | [M] |
| R50012 | ERJ2GE0R00X | 0 2W | [M] |
| R50013 | ERJ2GE0R00X | 0 2W | [M] |
| R50015 | ERJ2RHD333X | 33K 2W | [M] |
| R50016 | ERJ2RHD152X | 1.5K 2W | [M] |
| R50017 | ERJ2RHD153X | 15K 2W | [M] |
| R50018 | ERJ3RBD151V | 150 3W | [M] |
| R50019 | ERJ2GEJ330X | 33 2W | [M] |
| R50020 | ERJ2GEJ102X | 1K 2W | [M] |
| R50021 | ERJ3RED820V | 82 3W | [M] |
| R50022 | ERJ2GEJ330X | 33 2W | [M] |
| R50023 | ERJ2GEJ102X | 1K 2W | [M] |
| R50024 | ERJ3RED820V | 82 3W | [M] |
| R50025 | ERJ2GEJ330X | 33 2W | [M] |
| R50026 | ERJ2GEJ102X | 1K 2W | [M] |
| R50027 | ERJ3RBD151V | 150 3W | [M] |
| R50028 | ERJ2GEJ330X | 33 2W | [M] |
| R50029 | ERJ2GEJ102X | 1K 2W | [M] |
| R50030 | ERJ3RED330V | 33 3W | [M] |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| R50031 | ERJ3RBD151V | 150 3W | [M] |
| R50032 | ERJ2GEJ330X | 33 2W | [M] |
| R50033 | ERJ2GEJ102X | 1K 2W | [M] |
| R50034 | ERJ3RED220V | 22 3W | [M] |
| R50035 | ERJ3RED220V | 22 3W | [M] |
| R50036 | ERJ2GEJ470X | 47 2W | [M] |
| R50037 | ERJ2GEJ470X | 47 2W | [M] |
| R50038 | ERJ2GEJ470X | 47 2W | [M] |
| R50039 | ERJ2GEJ820X | 82 2W | [M] |
| | | | |
| K3001 | ERJ3GEY0R00V | 0 1/16W | [M] |
| K3002 | ERJ3GEY0R00V | 0 1/16W | [M] |
| K4005 | ERJ3GEY0R00V | 0 1/16W | [M] |
| K7401 | ERJ3GEY0R00V | 0 1/16W | [M] |
| K7403 | ERJ3GEY0R00V | 0 1/16W | [M] |
| K7404 | ERJ3GEY0R00V | 0 1/16W | [M] |
| K7502 | ERJ3GEY0R00V | 0 1/16W | [M] |
| K7503 | ERJ3GEY0R00V | 0 1/16W | [M] |
| K7506 | ERJ3GEY0R00V | 0 1/16W | [M] |
| K7507 | ERJ3GEY0R00V | 0 1/16W | [M] |
| K7509 | ERJ3GEY0R00V | 0 1/16W | [M] |
| K7512 | ERJ3GEY0R00V | 0 1/16W | [M] |
| | | | |
| RX3401 | D1H82204A024 | RESISTOR | [M] |
| RX3402 | D1H82204A024 | RESISTOR | [M] |
| RX3403 | D1H82204A024 | RESISTOR | [M] |
| RX3404 | D1H82204A024 | RESISTOR | [M] |
| RX3405 | D1H82204A024 | RESISTOR | [M] |
| RX3406 | D1H82204A024 | RESISTOR | [M] |
| RX3407 | D1H82204A024 | RESISTOR | [M] |
| RX3408 | D1H82204A024 | RESISTOR | [M] |
| RX3409 | D1H82204A024 | RESISTOR | [M] |
| RX3410 | D1H82204A024 | RESISTOR | [M] |
| RX3411 | D1H82204A024 | RESISTOR | [M] |
| RX3412 | D1H82204A024 | RESISTOR | [M] |
| RX3413 | D1H82204A024 | RESISTOR | [M] |
| RX3414 | D1H82204A024 | RESISTOR | [M] |
| RX3415 | D1H82204A024 | RESISTOR | [M] |
| RX3416 | D1H82204A024 | RESISTOR | [M] |
| RX3417 | D1H82204A024 | RESISTOR | [M] |
| RX3421 | D1H82204A024 | RESISTOR | [M] |
| RX3422 | D1H82204A024 | RESISTOR | [M] |
| RX3433 | D1H82204A024 | RESISTOR | [M] |
| RX3434 | D1H82204A024 | RESISTOR | [M] |
| RX3435 | D1H82204A024 | RESISTOR | [M] |
| RX3436 | D1H82204A024 | RESISTOR | [M] |
| RX3437 | D1H82204A024 | RESISTOR | [M] |
| RX3438 | D1H82204A024 | RESISTOR | [M] |
| RX3439 | D1H82204A024 | RESISTOR | [M] |
| RX3440 | D1H82204A024 | RESISTOR | [M] |
| RX3441 | D1H82204A024 | RESISTOR | [M] |
| RX3442 | D1H82204A024 | RESISTOR | [M] |
| RX3443 | D1H82204A024 | RESISTOR | [M] |
| RX3444 | D1H82204A024 | RESISTOR | [M] |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| RX3501 | D1H82204A024 | RESISTOR | [M] |
| RX3502 | D1H82204A024 | RESISTOR | [M] |
| RX3503 | D1H82204A024 | RESISTOR | [M] |
| RX3504 | D1H82204A024 | RESISTOR | [M] |
| RX3505 | D1H83304A024 | RESISTOR | [M] |
| RX3506 | D1H83304A024 | RESISTOR | [M] |
| RX3507 | D1H83304A024 | RESISTOR | [M] |
| RX3508 | D1H83304A024 | RESISTOR | [M] |
| RX3515 | D1H83304A024 | RESISTOR | [M] |
| RX3516 | D1H83304A024 | RESISTOR | [M] |
| RX3517 | D1H83304A024 | RESISTOR | [M] |
| RX3518 | D1H83304A024 | RESISTOR | [M] |
| RX3519 | D1H83304A024 | RESISTOR | [M] |
| RX3520 | D1H82204A024 | RESISTOR | [M] |
| RX3521 | D1H82204A024 | RESISTOR | [M] |
| RX3522 | D1H82204A024 | RESISTOR | [M] |
| RX3523 | D1H82204A024 | RESISTOR | [M] |
| RX3524 | D1H82204A024 | RESISTOR | [M] |
| RX3525 | D1H82204A024 | RESISTOR | [M] |
| RX3526 | D1H82204A024 | RESISTOR | [M] |
| RX3527 | D1H81034A024 | RESISTOR | [M] |
| RX3528 | D1H81034A024 | RESISTOR | [M] |
| RX3529 | D1H81034A024 | RESISTOR | [M] |
| RX3530 | D1H81034A024 | RESISTOR | [M] |
| RX3531 | D1H81034A024 | RESISTOR | [M] |
| RX3532 | D1H81034A024 | RESISTOR | [M] |
| RX3538 | D1H84734A024 | RESISTOR | [M] |
| RX3539 | D1H84734A024 | RESISTOR | [M] |
| RX3540 | D1H84734A024 | RESISTOR | [M] |
| RX6001 | D1H81034A024 | RESISTOR | [M] |
| RX6002 | D1H84704A024 | RESISTOR | [M] |
| RX6003 | D1H84704A024 | RESISTOR | [M] |
| RX6004 | D1H84704A024 | RESISTOR | [M] |
| RX6005 | D1H83304A024 | RESISTOR | [M] |
| RX6006 | D1H83304A024 | RESISTOR | [M] |
| RX6007 | D1H84704A024 | RESISTOR | [M] |
| RX6009 | D1H83304A024 | RESISTOR | [M] |
| RX6010 | D1H83304A024 | RESISTOR | [M] |
| RX6011 | D1H83304A024 | RESISTOR | [M] |
| RX6012 | D1H83304A024 | RESISTOR | [M] |
| RX6013 | D1H83304A024 | RESISTOR | [M] |
| RX6014 | D1H83304A024 | RESISTOR | [M] |
| RX6015 | D1H83304A024 | RESISTOR | [M] |
| RX6016 | D1H83304A024 | RESISTOR | [M] |
| RX6017 | D1H83304A024 | RESISTOR | [M] |
| RX6018 | D1H83304A024 | RESISTOR | [M] |
| RX6019 | D1H83304A024 | RESISTOR | [M] |
| RX6020 | D1H83304A024 | RESISTOR | [M] |
| RX6021 | D1H83304A024 | RESISTOR | [M] |
| RX6022 | D1H83304A024 | RESISTOR | [M] |
| RX6023 | D1H83304A024 | RESISTOR | [M] |
| RX6024 | D1H83304A024 | RESISTOR | [M] |
| RX6025 | D1H83304A024 | RESISTOR | [M] |
| RX6026 | D1H83304A024 | RESISTOR | [M] |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| RX6027 | D1H84704A024 | RESISTOR | [M] |
| RX6028 | D1H84704A024 | RESISTOR | [M] |
| RX6029 | D1H84704A024 | RESISTOR | [M] |
| RX6030 | D1H84704A024 | RESISTOR | [M] |
| RX6031 | D1H84704A024 | RESISTOR | [M] |
| RX6032 | D1H84704A024 | RESISTOR | [M] |
| RX6033 | D1H83324A024 | RESISTOR | [M] |
| RX6034 | D1H83324A024 | RESISTOR | [M] |
| RX6035 | D1H83334A024 | RESISTOR | [M] |
| RX6036 | D1H83334A024 | RESISTOR | [M] |
| RX6037 | D1H81034A024 | RESISTOR | [M] |
| RX6038 | D1H83304A024 | RESISTOR | [M] |
| RX6039 | D1H84704A024 | RESISTOR | [M] |
| RX6040 | D1H84704A024 | RESISTOR | [M] |
| RX6041 | D1H84704A024 | RESISTOR | [M] |
| RX6042 | D1H84704A024 | RESISTOR | [M] |
| RX6043 | D1H81034A024 | RESISTOR | [M] |
| RX6044 | D1H83334A024 | RESISTOR | [M] |
| RX6701 | D1H81034A024 | RESISTOR | [M] |
| RX6702 | D1H81034A024 | RESISTOR | [M] |
| RX6703 | D1H84704A024 | RESISTOR | [M] |
| RX6704 | D1H84704A024 | RESISTOR | [M] |
| RX6705 | D1H84704A024 | RESISTOR | [M] |
| RX6706 | D1H84704A024 | RESISTOR | [M] |
| RX6708 | D1H84704A024 | RESISTOR | [M] |
| RX6711 | D1H83324A024 | RESISTOR | [M] |
| RX6712 | D1H83324A024 | RESISTOR | [M] |
| RX6713 | D1H83324A024 | RESISTOR | [M] |
| RX6716 | D1H84704A024 | RESISTOR | [M] |
| RX6717 | D1H83334A024 | RESISTOR | [M] |
| RX6718 | D1H83334A024 | RESISTOR | [M] |
| RX6719 | D1H83334A024 | RESISTOR | [M] |
| RX6720 | D1H83324A024 | RESISTOR | [M] |
| RX6721 | D1H83324A024 | RESISTOR | [M] |
| RX6722 | D1H83324A024 | RESISTOR | [M] |
| RX6723 | D1H83324A024 | RESISTOR | [M] |
| RX6724 | D1H84704A024 | RESISTOR | [M] |
| RX6726 | D1H84704A024 | RESISTOR | [M] |
| RX6727 | D1H84704A024 | RESISTOR | [M] |
| RX6728 | D1H84704A024 | RESISTOR | [M] |
| RX6729 | D1H81034A024 | RESISTOR | [M] |
| RX6730 | D1H81034A024 | RESISTOR | [M] |
| RX6731 | D1H84704A024 | RESISTOR | [M] |
| RX6732 | D1H84704A024 | RESISTOR | [M] |
| RX6733 | D1H84704A024 | RESISTOR | [M] |
| RX6734 | D1H84704A024 | RESISTOR | [M] |
| RX6735 | D1H82224A024 | RESISTOR | [M] |
| RX6736 | D1H81034A024 | RESISTOR | [M] |
| RX6737 | D1H84724A024 | RESISTOR | [M] |
| RX6738 | D1H83334A024 | RESISTOR | [M] |
| RX50001 | D1H84704A024 | RESISTOR | [M] |
| RX50002 | D1H84704A024 | RESISTOR | [M] |
| RX50003 | D1H84704A024 | RESISTOR | [M] |
| RX50004 | D1H84704A024 | RESISTOR | [M] |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| RX50005 | D1H84704A024 | RESISTOR | [M] |
| RX50006 | D1H84704A024 | RESISTOR | [M] |
| RX50007 | D1H84704A024 | RESISTOR | [M] |
| RX50008 | D1H84704A024 | RESISTOR | [M] |
| RX50009 | D1H84704A024 | RESISTOR | [M] |
| RX50010 | D1H84704A024 | RESISTOR | [M] |
| RX50011 | D1H84704A024 | RESISTOR | [M] |
| RX50012 | D1H84704A024 | RESISTOR | [M] |
| RX50013 | D1H84704A024 | RESISTOR | [M] |
| RX50014 | D1H84704A024 | RESISTOR | [M] |
| RX50015 | D1H84704A024 | RESISTOR | [M] |
| RX50016 | D1H84704A024 | RESISTOR | [M] |
| | | | |
| | | CAPACITORS | |
| | | | |
| C13 | ECJ1VB1H104K | 0.1 50V | [M] |
| C14 | ECJ1VB1H103K | 0.01 50V | [M] |
| C15 | ECJ1VB1H103K | 0.01 50V | [M] |
| C16 | ECJ1VB1H103K | 0.01 50V | [M] |
| C21 | ECJ1VB1H102K | 1000P 50V | [M] |
| C22 | ECA1HM101B | 100 50V | [M] |
| C25 | ECJ1VB1H102K | 1000P 50V | [M] |
| C26 | ECA1HM470B | 47 50V | [M] |
| C27 | ECA1CAK100XB | 10 16V | [M] |
| C31 | ECA1EAK100XB | 10 25V | [M] |
| C32 | ECJ1VB1A105K | 1 10V | [M] |
| C46 | ECA1AAK101XB | 100 10V | [M] |
| C51 | ECA1CAK100XB | 10 16V | [M] |
| C52 | ECA0JAK101XB | 100 6.3V | [M] |
| C61 | ECUV1C104KBV | 0.1 16V | [M] |
| C62 | ECUV1C104KBV | 0.1 16V | [M] |
| C71 | ECUV1C104KBV | 0.1 16V | [M] |
| C72 | ECUV1C104KBV | 0.1 16V | [M] |
| C161 | ECJ1VB1A105K | 1 10V | [M] |
| C163 | ECJ1VB1C393K | 0.039 16V | [M] |
| C164 | ECJ1VB1C393K | 0.039 16V | [M] |
| C165 | ECJ1VC1H220J | 22P 50V | [M] |
| C166 | ECJ1VC1H220J | 22P 50V | [M] |
| C301 | ECJ1VB1A105K | 1 10V | [M] |
| C302 | ECJ1VB1A105K | 1 10V | [M] |
| C303 | ECJ1VB1A105K | 1 10V | [M] |
| C304 | ECJ1VB1A105K | 1 10V | [M] |
| C305 | ECJ1VB1A105K | 1 10V | [M] |
| C306 | ECJ1VB1A105K | 1 10V | [M] |
| C311 | ECJ1VB1H471K | 470P 50V | [M] |
| C312 | ECJ1VB1H471K | 470P 50V | [M] |
| C313 | ECJ1VB1H471K | 470P 50V | [M] |
| C314 | ECJ1VB1H471K | 470P 50V | [M] |
| C315 | ECJ1VB1H471K | 470P 50V | [M] |
| C316 | ECJ1VB1H471K | 470P 50V | [M] |
| C321 | ECJ1VB1A105K | 1 10V | [M] |
| C322 | ECJ1VB1A105K | 1 10V | [M] |
| C351 | ECUV1C104KBV | 0.1 16V | [M] |
| C352 | ECA1HAK4R7XB | 4.7 50V | [M] |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| C391 | ECUV1C104KBV | 0.1 16V | [M] |
| C401 | ECJ1VC1H101J | 100P 50V | [M] |
| C402 | ECJ1VC1H101J | 100P 50V | [M] |
| C405 | ECUV1C104KBV | 0.1 16V | [M] |
| C406 | ECUV1C104KBV | 0.1 16V | [M] |
| C411 | ECJ1VC1H101K | 100P 50V | [M] |
| C412 | ECJ1VC1H101K | 100P 50V | [M] |
| C413 | ECJ1VC1H470J | 47P 50V | [M] |
| C414 | ECJ1VC1H470J | 47P 50V | [M] |
| C415 | ECJ1VB1A105K | 1 10V | [M] |
| C416 | ECJ1VB1A105K | 1 10V | [M] |
| C419 | ECJ1VB1H104K | 0.1 50V | [M] |
| C420 | ECJ1VB1H104K | 0.1 50V | [M] |
| C425 | ECJ1VB1H471K | 470P 50V | [M] |
| C426 | ECJ1VB1H471K | 470P 50V | [M] |
| C427 | ECJ1VB1A105K | 1 10V | [M] |
| C428 | ECJ1VB1A105K | 1 10V | [M] |
| C431 | ECJ1VB1H471K | 470P 50V | [M] |
| C432 | ECJ1VB1H102K | 1000P 50V | [M] |
| C433 | ECJ1VB1A105K | 1 10V | [M] |
| C434 | ECA1CAK100XB | 10 16V | [M] |
| C451 | ECJ1VB1H471K | 470P 50V | [M] |
| C452 | ECJ1VB1H471K | 470P 50V | [M] |
| C453 | ECJ1VB1A105K | 1 10V | [M] |
| C454 | ECJ1VB1A105K | 1 10V | [M] |
| C461 | ECJ1VB1H471K | 470P 50V | [M] |
| C462 | ECJ1VB1H471K | 470P 50V | [M] |
| C463 | ECJ1VB1A105K | 1 10V | [M] |
| C464 | ECJ1VB1A105K | 1 10V | [M] |
| C465 | ECJ1VB1A105K | 1 10V | [M] |
| C466 | ECJ1VB1A105K | 1 10V | [M] |
| C471 | ECJ1VB1A105K | 1 10V | [M] |
| C472 | ECJ1VB1A105K | 1 10V | [M] |
| C473 | ECJ1VB1H471K | 470P 50V | [M] |
| C474 | ECJ1VB1H471K | 470P 50V | [M] |
| C481 | ECJ1VB1H471K | 470P 50V | [M] |
| C482 | ECJ1VB1H471K | 470P 50V | [M] |
| C483 | ECJ1VC1H470J | 47P 50V | [M] |
| C484 | ECJ1VC1H470J | 47P 50V | [M] |
| C485 | ECJ1VC1H101J | 100P 50V | [M] |
| C486 | ECJ1VC1H101J | 100P 50V | [M] |
| C499 | ECJ1VB1H102K | 1000P 50V | [M] |
| C503 | ECJ1VB1A105K | 1 10V | [M] |
| C504 | ECJ1VB1A105K | 1 10V | [M] |
| C511 | ECJ1VB1C683K | 0.068 16V | [M] |
| C512 | ECJ1VB1C683K | 0.068 16V | [M] |
| C521 | ECUV1C104KBV | 0.1 16V | [M] |
| C522 | ECJ1VB1A105K | 1 10V | [M] |
| C541 | ECJ1VB1A105K | 1 10V | [M] |
| C542 | ECJ1VB1A105K | 1 10V | [M] |
| C551 | ECJ1VB1H682K | 6800P 50V | [M] |
| C552 | ECJ1VB1H682K | 6800P 50V | [M] |
| C561 | ECUV1C104KBV | 0.1 16V | [M] |
| C562 | ECUV1C104KBV | 0.1 16V | [M] |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| C571 | ECUV1C104KBV | 0.1 16V | [M] |
| C572 | ECUV1C104KBV | 0.1 16V | [M] |
| C591 | ECJ1VC1H470J | 47P 50V | [M] |
| C592 | ECJ1VC1H470J | 47P 50V | [M] |
| C601 | ECA1HAK2R2XB | 2.2 50V | [M] |
| C602 | ECA1HAK2R2XB | 2.2 50V | [M] |
| C605 | ECST1AY475R | 4.7 10V | [M] |
| C606 | ECST1AY475R | 4.7 10V | [M] |
| C607 | ECJ1VC1H101J | 100P 50V | [M] |
| C608 | ECJ1VC1H101J | 100P 50V | [M] |
| C609 | ECJ1VC1H220J | 22P 50V | [M] |
| C610 | ECJ1VC1H220J | 22P 50V | [M] |
| C616 | ECST1CC226R | 22 16V | [M] |
| C631 | ECJ1VB1H102K | 1000P 50V | [M] |
| C632 | ECJ1VB1H102K | 1000P 50V | [M] |
| C635 | ECJ1VB1H103K | 0.01 50V | [M] |
| C636 | ECJ1VB1H103K | 0.01 50V | [M] |
| C637 | ECJ1VB1C333K | 0.33 16V | [M] |
| C638 | ECJ1VB1C333K | 0.33 16V | [M] |
| C639 | ECJ0EB1A104K | 0.1 10V | [M] |
| C640 | ECJ1VB1A105K | 1 10V | [M] |
| C641 | ECJ1VB1C473K | 0.047 16V | [M] |
| C642 | ECJ1VB1C473K | 0.047 16V | [M] |
| C643 | ECJ1VB1C473K | 0.047 16V | [M] |
| C644 | ECJ1VB1C473K | 0.047 16V | [M] |
| C645 | ECJ1VC1H101J | 100P 50V | [M] |
| C646 | ECJ1VC1H101J | 100P 50V | [M] |
| C647 | ECJ1VB1A105K | 1 10V | [M] |
| C648 | ECJ1VB1A105K | 1 10V | [M] |
| C651 | ECJ1VB1H222K | 2200P 50V | [M] |
| C652 | ECJ1VB1H222K | 2200P 50V | [M] |
| C662 | ECA1CAK220XB | 22 16V | [M] |
| C663 | ECJ1VB1E223K | 0.022 25V | [M] |
| C664 | ECJ1VB1H103K | 0.01 50V | [M] |
| C665 | F1H1A154A028 | 0.15 10V | [M] |
| C666 | F1H1A334A025 | 0.33 10V | [M] |
| C667 | F1H1A824A039 | 0.82 10V | [M] |
| C668 | ECA1AAK330XB | 33 10V | [M] |
| C669 | F1H1A224A028 | 0.22 10V | [M] |
| C670 | ECJ1VB1H103K | 0.01 50V | [M] |
| C671 | ECJ1VB1H102K | 1000P 50V | [M] |
| C673 | ECJ1VC1H100J | 10P 50V | [M] |
| C674 | ECJ1VC1H100J | 10P 50V | [M] |
| C677 | ECJ1VB1A105K | 1 10V | [M] |
| C678 | ECJ1VB1A105K | 1 10V | [M] |
| C679 | ECA1CAK100XB | 10 16V | [M] |
| C680 | ECA1CAK100XB | 10 16V | [M] |
| C681 | ECST1CX106R | 10 16V | [M] |
| C685 | ECJ1VC1H100J | 10P 50V | [M] |
| C686 | ECJ1VB1H102K | 1000P 50V | [M] |
| C687 | F1H1A334A025 | 0.33 10V | [M] |
| C688 | ECA1CAK100XB | 10 16V | [M] |
| C689 | ECA1CAK100XB | 10 16V | [M] |
| C690 | ECA1CAK220XB | 22 16V | [M] |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| C691 | ECA1CAK100XB | 10 16V | [M] |
| C700 | ECJ1VB1H103K | 0.01 50V | [M] |
| C701 | ECST1AY475R | 4.7 10V | [M] |
| C710 | ECUV1C104KBV | 0.1 16V | [M] |
| C751 | ECST1CX106R | 10 16V | [M] |
| C752 | ECST1CX106R | 10 16V | [M] |
| C761 | ECJ1VB1C153K | 0.015 16V | [M] |
| C762 | ECJ1VB1C153K | 0.015 16V | [M] |
| C763 | ECJ1VB1C153K | 0.015 16V | [M] |
| C764 | ECJ1VB1C153K | 0.015 16V | [M] |
| C765 | ECJ1VB1C153K | 0.015 16V | [M] |
| C771 | ECA1CAK100XB | 10 16V | [M] |
| C801 | ECA0JAM102XB | 1000 6.3V | [M] |
| C802 | ECA0JAK101XB | 100 6.3V | [M] |
| C803 | ECJ1VB1H102K | 1000P 50V | [M] |
| C804 | ECJ1VB1H102K | 1000P 50V | [M] |
| C805 | ECJ1VB1H103K | 0.01 50V | [M] |
| C806 | ECST1CC226R | 22 16V | [M] |
| C807 | ECA1HAK3R3XB | 3.3 50V | [M] |
| C808 | ECJ1VB1C473K | 0.047 16V | [M] |
| C809 | ECJ1VB1H103K | 0.01 50V | [M] |
| C811 | ECJ0EF1C104Z | 0.1 16V | [M] |
| C819 | ECJ0EB1H102K | 1000P 50V | [M] |
| C833 | ECJ1VB1H101K | 100P 50V | [M] |
| C833 | ECJ1VC1H101J | 100P 50V | [M] |
| C834 | ECJ1VB1H101K | 100P 50V | [M] |
| C834 | ECJ1VC1H101J | 100P 50V | [M] |
| C837 | ECJ1VB1H101K | 100P 50V | [M] |
| C837 | ECJ1VC1H101J | 100P 50V | [M] |
| C891 | ECJ1VB1H103K | 0.01 50V | [M] |
| C1120 | ECQU2A104MLC | 0.1 100V | [M] |
| C1121 | ECQU2A104MLC | 0.1 100V | [M] |
| C1122 | F1BAF471A013 | 470 10V | [M] |
| C1123 | F1BAF471A013 | 470 10V | [M] |
| C1124 | F1BAF471A013 | 470 10V | [M] |
| C1126 | F1BAF1020020 | 1000P 10V | [M] |
| C1127 | F1BAF1020020 | 1000P 10V | [M] |
| C1143 | EEUEB2E101SE | 100 250V | [M] |
| C1150 | F2A1V5600013 | 56P 35V | [M] |
| C1151 | F1B3A182A009 | 1800P 1000V | [M] |
| C1152 | ECJ2VC1H101J | 100P 50V | [M] |
| C1153 | ECJ2VB1H103K | 0.01 50V | [M] |
| C1154 | ECJ2VB1H102K | 1000P 50V | [M] |
| C1155 | ECQE2103KF | 0.01 250V | [M] |
| C1156 | ECJ2FB1H104K | 0.1 50V | [M] |
| C1200 | ECQV1H104JL3 | 0.1 50V | [M] |
| C1201 | ECJ1VB1H473K | 0.047 50V | [M] |
| C1202 | ECJ2FB1H104K | 0.1 50V | [M] |
| C1209 | ECJ1VC1H101K | 100P 50V | [M] |
| C1210 | ECJ1VC1H101K | 100P 50V | [M] |
| C1211 | ECJ1VC1H101K | 100P 50V | [M] |
| C1212 | ECJ1VC1H101K | 100P 50V | [M] |
| C1214 | ECUV1C104KBV | 0.1 16V | [M] |
| C1215 | ECUV1C104KBV | 0.1 16V | [M] |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| C1216 | ECUV1C104KBV | 0.1 16V | [M] |
| C1219 | ECUV1C104KBV | 0.1 16V | [M] |
| C1220 | ECUV1C104KBV | 0.1 16V | [M] |
| C1221 | ECJ1VB1H102K | 1000P 50V | [M] |
| C1222 | ECJ1VB1H103K | 0.01 50V | [M] |
| C1224 | ECJ1VC1H470J | 47P 50V | [M] |
| C1225 | ECJ1VC1H470J | 47P 50V | [M] |
| C1226 | ECJ1VC1H470J | 47P 50V | [M] |
| C1227 | ECUV1C104KBV | 0.1 16V | [M] |
| C1228 | EEAFC0J101B | 100P 6.3V | [M] |
| C1229 | ECJ1VC1H101K | 100P 50V | [M] |
| C1230 | ECJ1VC1H121K | 120P 50V | [M] |
| C1231 | ECJ1VB1A474K | 0.47 10V | [M] |
| C1232 | ECJ1VB1H103K | 0.01 50V | [M] |
| C1233 | ECUV1C104KBV | 0.1 16V | [M] |
| C1234 | EEAFC0J101B | 100P 6.3V | [M] |
| C1235 | ECUV1C104KBV | 0.1 16V | [M] |
| C1236 | F1H1A224A028 | 0.22 10V | [M] |
| C1237 | ECUV1C104KBV | 0.1 16V | [M] |
| C1238 | ECUV1C104KBV | 0.1 16V | [M] |
| C1241 | ECJ1VB1A105K | 1 10V | [M] |
| C1242 | ECJ1VC1H120J | 12P 50V | [M] |
| C1243 | ECJ1VC1H120J | 12P 50V | [M] |
| C1244 | ECUV1C104KBV | 0.1 16V | [M] |
| C1245 | ECA1CAK100XB | 10 16V | [M] |
| C1246 | ECA0JAK101XB | 100 6.3V | [M] |
| C1247 | ECUV1C104KBV | 0.1 16V | [M] |
| C1248 | ECUV1C104KBV | 0.1 16V | [M] |
| C1249 | ECA1CAK100XB | 10 16V | [M] |
| C1250 | ECUV1C104KBV | 0.1 16V | [M] |
| C1251 | ECA0JAK101XB | 100 6.3V | [M] |
| C1252 | ECJ1VB1H102K | 1000P 50V | [M] |
| C1253 | ECJ1VB1H102K | 1000P 50V | [M] |
| C1254 | ECJ1VC1H151K | 150P 50V | [M] |
| C1255 | ECJ1VB1H103K | 0.01 50V | [M] |
| C1256 | ECJ1VC1H391K | 390P 50V | [M] |
| C1257 | ECJ1VC1H391K | 390P 50V | [M] |
| C1258 | ECUV1C104KBV | 0.1 16V | [M] |
| C1259 | ECA1CAK100XB | 10 16V | [M] |
| C1260 | ECJ1VB1H103K | 0.01 50V | [M] |
| C1260 | F2A1A6810017 | 680P 10V | [M] |
| C1261 | ECJ1VC1H151K | 150P 50V | [M] |
| C1261 | F2A1A6810017 | 680P 10V | [M] |
| C1262 | ECJ1VB1E223K | 0.022 25V | [M] |
| C1262 | F2A1A1020056 | 1000P 10V | [M] |
| C1263 | ECUV1C104KBV | 0.1 16V | [M] |
| C1265 | ECUV1C104KBV | 0.1 16V | [M] |
| C1270 | F2A1C6810023 | 680P 16V | [M] |
| C1271 | F2A1C6810023 | 680P 16V | [M] |
| C1272 | F2A1E2210050 | 220P 25V | [M] |
| C1273 | F2A1E2210050 | 220P 25V | [M] |
| C1280 | F2A1E2210050 | 220P 25V | [M] |
| C1281 | F2A1E2210050 | 220P 25V | [M] |
| C1291 | F1H1A224A028 | 0.22 10V | [M] |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| C1292 | ECJ1VB1H103K | 0.01 50V | [M] |
| C1293 | ECJ1VB1H103K | 0.01 50V | [M] |
| C1302 | F2A1A6810017 | 680P 10V | [M] |
| C1400 | F2A1E2210050 | 220P 25V | [M] |
| C1401 | ECJ2FB1H104K | 0.1 50V | [M] |
| C1402 | ECJ1VB1H473K | 0.047 50V | [M] |
| C1403 | ECJ2VB1H102K | 1000P 50V | [M] |
| C1404 | ECJ2FB1H104K | 0.1 50V | [M] |
| C1405 | ECJ2FB1H104K | 0.1 50V | [M] |
| C1407 | ECJ2VB1H102K | 1000P 50V | [M] |
| C1408 | F2A1A2210063 | 220P 10V | [M] |
| C1409 | ECJ2VB1H223K | 0.022 50V | [M] |
| C1410 | ECJ2FB1H104K | 0.1 50V | [M] |
| C1411 | ECJ2FB1H104K | 0.1 50V | [M] |
| C1412 | F2A0J1020045 | 1000P 6.3V | [M] |
| C1413 | ECJ2FB1H104K | 0.1 50V | [M] |
| C1414 | ECJ2VB1H102K | 1000P 50V | [M] |
| C1416 | ECJ2VC1H101J | 100P 50V | [M] |
| C1417 | F2A0J1020045 | 1000P 6.3V | [M] |
| C1418 | ECJ1VB1H473K | 0.047 50V | [M] |
| C1419 | ECJ2VC1H221J | 220P 50V | [M] |
| C1420 | F2A1E4700048 | 47P 25V | [M] |
| C1421 | ECJ2FB1H104K | 0.1 50V | [M] |
| C1422 | F2A1A2210063 | 220P 10V | [M] |
| C1423 | ECJ2VB1H681K | 680P 50V | [M] |
| C1424 | ECJ2FB1H104K | 0.1 50V | [M] |
| C1425 | ECJ1VB1H473K | 0.047 50V | [M] |
| C1452 | F2A1C6810023 | 680P 16V | [M] |
| C1453 | F2A1C6810023 | 680P 16V | [M] |
| C1501 | ECJ1VB1A105K | 1 10V | [M] |
| C1502 | ECJ1VB1A105K | 1 10V | [M] |
| C1503 | ECJ1VB1A105K | 1 10V | [M] |
| C1505 | F2A1A470A388 | 47P 10V | [M] |
| C1512 | ECJ1VB0J105K | 1 6.3V | [M] |
| C1513 | ECJ1VB1A105K | 1 10V | [M] |
| C1514 | ECJ1VB0J105K | 1 6.3V | [M] |
| C1515 | ECUV1C104KBV | 0.1 16V | [M] |
| C1516 | ECJ1VB1A105K | 1 10V | [M] |
| C1518 | F2A1A470A388 | 47P 10V | [M] |
| C1519 | ECUV1C104KBV | 0.1 16V | [M] |
| C1520 | ECJ1VB1A105K | 1 10V | [M] |
| C1521 | ECJ1VB0J105K | 1 6.3V | [M] |
| C1522 | ECJ1VC1H331J | 330P 50V | [M] |
| C1523 | ECJ1VB1A105K | 1 10V | [M] |
| C1524 | F2A1A470A388 | 47P 10V | [M] |
| C1527 | ECJ1VB0J105K | 1 6.3V | [M] |
| C1528 | ECJ1VB0J105K | 1 6.3V | [M] |
| C1531 | F2A1A470A388 | 47P 10V | [M] |
| C1533 | ECJ1VB0J105K | 1 6.3V | [M] |
| C1534 | ECJ1VB0J105K | 1 6.3V | [M] |
| C1537 | F2A1E1010067 | 100P 25V | [M] |
| C1539 | F1J0J106A014 | 10 6.3V | [M] |
| C1540 | F1J0J106A014 | 10 6.3V | [M] |
| C1541 | F1K1C3350002 | 3.3 16V | [M] |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| C1543 | F1K1C3350002 | 3.3 16V | [M] |
| C3001 | ECJ1VC1H561J | 560P 50V | [M] |
| C3005 | ECJ1VB1C333K | 0.033 16V | [M] |
| C3006 | ECUV1C104KBV | 0.1 16V | [M] |
| C3007 | ECUV1C104KBV | 0.1 16V | [M] |
| C3008 | ECUV1C104KBV | 0.1 16V | [M] |
| C3009 | ECJ1VB1H103K | 0.01 50V | [M] |
| C3010 | ECJ1VB1H103K | 0.01 50V | [M] |
| C3011 | ECJ1VB1H103K | 0.01 50V | [M] |
| C3012 | ECJ1VB1H103K | 0.01 50V | [M] |
| C3013 | ECJ1VB1H103K | 0.01 50V | [M] |
| C3014 | ECJ1VB1H103K | 0.01 50V | [M] |
| C3015 | ECJ1VB1H103K | 0.01 50V | [M] |
| C3016 | ECJ1VB1H103K | 0.01 50V | [M] |
| C3017 | ECJ1VB1H103K | 0.01 50V | [M] |
| C3018 | F2A1E4700048 | 47P 25V | [M] |
| C3019 | ECJ1VB1H103K | 0.01 50V | [M] |
| C3020 | ECJ1VB1H103K | 0.01 50V | [M] |
| C3021 | ECJ1VB1H103K | 0.01 50V | [M] |
| C3022 | F2A0J1020045 | 1000P 6.3V | [M] |
| C3023 | F2A1A1010072 | 100P 10V | [M] |
| C3024 | F2A0J1020045 | 1000P 6.3V | [M] |
| C3025 | F2A1A1010072 | 100P 10V | [M] |
| C3026 | F2A0J1020045 | 1000P 6.3V | [M] |
| C3027 | F2A1A1010072 | 100P 10V | [M] |
| C3028 | F2A1A1010072 | 100P 10V | [M] |
| C3029 | F2A0J1020045 | 1000P 6.3V | [M] |
| C3030 | F2A1A1010072 | 100P 10V | [M] |
| C3031 | F2A0J1020045 | 1000P 6.3V | [M] |
| C3032 | ECJ1VB0J105K | 1 6.3V | [M] |
| C3033 | ECJ1VB0J105K | 1 6.3V | [M] |
| C3034 | ECJ1VB1H103K | 0.01 50V | [M] |
| C3035 | F2A1H2200032 | 22P 50V | [M] |
| C3036 | F2A1H2200032 | 22P 50V | [M] |
| C3037 | ECUV1C104KBV | 0.1 16V | [M] |
| C3038 | F2J1C4700005 | 47P 16V | [M] |
| C3039 | ECUV1C104KBV | 0.1 16V | [M] |
| C3040 | ECJ1VB1H103K | 0.01 50V | [M] |
| C3041 | ECUV1C104KBV | 0.1 16V | [M] |
| C3042 | F2J1C4700005 | 47P 16V | [M] |
| C3043 | ECJ1VB1H103K | 0.01 50V | [M] |
| C3044 | F2A1E4700048 | 47P 25V | [M] |
| C3046 | ECJ1VB1H103K | 0.01 50V | [M] |
| C3047 | ECJ1VB1H103K | 0.01 50V | [M] |
| C3048 | ECJ1VB1H103K | 0.01 50V | [M] |
| C3049 | ECJ1VB1H103K | 0.01 50V | [M] |
| C3051 | ECJ1VB1H103K | 0.01 50V | [M] |
| C3052 | ECJ1VB1H103K | 0.01 50V | [M] |
| C3401 | ECJ1VB0J105K | 1 6.3V | [M] |
| C3402 | ECJ0EC1H220J | 22P 50V | [M] |
| C3403 | ECJ0EB1A104K | 0.1 10V | [M] |
| C3404 | ECJ0EC1H220J | 22P 50V | [M] |
| C3405 | ECJ0EC1H220J | 22P 50V | [M] |
| C3406 | ECJ0EB1A104K | 0.1 10V | [M] |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| C3407 | ECJ0EC1H100D | 10P 50V | [M] |
| C3408 | ECJ0EC1H100D | 10P 50V | [M] |
| C3410 | ECJ0EB1C103K | 0.01 16V | [M] |
| C3411 | ECST0JX476R | 47 6.3V | [M] |
| C3413 | ECJ0EB1A104K | 0.1 10V | [M] |
| C3417 | ECUV0J105KBV | 1 6.3V | [M] |
| C3418 | ECUV0J105KBV | 1 6.3V | [M] |
| C3419 | ECUV0J105KBV | 1 6.3V | [M] |
| C3420 | ECJ0EB1C103K | 0.01 16V | [M] |
| C3421 | ECJ0EB1A104K | 0.1 10V | [M] |
| C3422 | ECJ0EB1C103K | 0.01 16V | [M] |
| C3423 | ECJ0EB1A104K | 0.1 10V | [M] |
| C3424 | ECJ0EB1A104K | 0.1 10V | [M] |
| C3425 | ECJ0EB1A104K | 0.1 10V | [M] |
| C3426 | ECJ0EB1A104K | 0.1 10V | [M] |
| C3427 | ECJ0EB1A104K | 0.1 10V | [M] |
| C3428 | ECJ0EB1A104K | 0.1 10V | [M] |
| C3429 | F1J0J106A016 | 10 6.3V | [M] |
| C3430 | F1J0J106A016 | 10 6.3V | [M] |
| C3431 | ECJ0EB1A104K | 0.1 10V | [M] |
| C3432 | ECUV0J105KBV | 1 6.3V | [M] |
| C3433 | ECJ0EB1A104K | 0.1 10V | [M] |
| C3435 | ECJ0EB1A104K | 0.1 10V | [M] |
| C3436 | ECJ0EB1A104K | 0.1 10V | [M] |
| C3440 | EEEHB0J101P | 100P 6.3V | [M] |
| C3441 | ECJ0EB1A104K | 0.1 10V | [M] |
| C3502 | ECJ0EB1C103K | 0.01 16V | [M] |
| C3901 | ECUV1C104KBV | 0.1 16V | [M] |
| C3902 | ECJ1VB1H103K | 0.01 50V | [M] |
| C3904 | ECJ1VB1H103K | 0.01 50V | [M] |
| C3905 | ECJ1VB1H103K | 0.01 50V | [M] |
| C3906 | ECJ1VB1H103K | 0.01 50V | [M] |
| C3907 | ECUV1C104KBV | 0.1 16V | [M] |
| C4003 | F2A1H1R0A494 | 1P 50V | [M] |
| C4004 | F2A1H1R0A494 | 1P 50V | [M] |
| C4005 | F2A1H1R0A494 | 1P 50V | [M] |
| C4006 | F2A1H1R0A494 | 1P 50V | [M] |
| C4009 | ECJ1VF1C104Z | 0.1 16V | [M] |
| C4010 | ECJ1VF1C104Z | 0.1 16V | [M] |
| C4011 | ECJ2VB1E104K | 0.1 25V | [M] |
| C4013 | F2A1H1R0A494 | 1P 50V | [M] |
| C4014 | F2A1H1R0A494 | 1P 50V | [M] |
| C4016 | F2A1C221A497 | 220P 16V | [M] |
| C4017 | ECJ1VC1H820J | 82P 50V | [M] |
| C4019 | ECJ1VC1H820J | 82P 50V | [M] |
| C4022 | ECUV1C104KBV | 0.1 16V | [M] |
| C4023 | F2A1C471A498 | 470P 16V | [M] |
| C4024 | F2A1C470A494 | 47P 16V | [M] |
| C4025 | F2A1C470A494 | 47P 16V | [M] |
| C4026 | F2A1H1R0A494 | 1P 50V | [M] |
| C4027 | F2A1H1R0A494 | 1P 50V | [M] |
| C4028 | F2A1C100A494 | 10P 16V | [M] |
| C4029 | F2A1C100A494 | 10P 16V | [M] |
| C4036 | F2A1C470A494 | 47P 16V | [M] |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| C4037 | F2A1C221A497 | 220P 16V | [M] |
| C4038 | F2A1C470A494 | 47P 16V | [M] |
| C4039 | ECJ2VC1H102J | 1000P 50V | [M] |
| C4040 | ECJ2VC1H102J | 1000P 50V | [M] |
| C4041 | ECJ2VC1H102J | 1000P 50V | [M] |
| C4042 | ECJ2VC1H102J | 1000P 50V | [M] |
| C4045 | ECJ1VF1C104Z | 0.1 16V | [M] |
| C4046 | ECJ1VF1C104Z | 0.1 16V | [M] |
| C4047 | ECQV1H104JL3 | 0.1 50V | [M] |
| C4049 | F2A0J471A497 | 470P 6.3V | [M] |
| C4050 | ECQV1H104JL3 | 0.1 50V | [M] |
| C4052 | F2A1C471A498 | 470P 16V | [M] |
| C4066 | ECJ2VC1H102J | 1000P 50V | [M] |
| C4067 | ECJ2VC1H102J | 1000P 50V | [M] |
| C4401 | ECJ0EF1C104Z | 0.1 16V | [M] |
| C4402 | ECST1AY106R | 10 10V | [M] |
| C4403 | ECJ0EF1C104Z | 0.1 16V | [M] |
| C4404 | ECJ0EB1E102K | 1000P 25V | [M] |
| C4405 | ECST1AY106R | 10 10V | [M] |
| C4406 | EEEHB0J101P | 100P 6.3V | [M] |
| C4407 | ECST1AY106R | 10 10V | [M] |
| C4408 | EEEHB0J470R | 47P 6.3V | [M] |
| C4415 | ECJ0EF1C104Z | 0.1 16V | [M] |
| C4416 | F2H0J331A016 | 330P 6.3V | [M] |
| C4417 | ECJ0EF1C104Z | 0.1 16V | [M] |
| C4418 | EEEHB0J101P | 100P 6.3V | [M] |
| C4421 | ECJ0EB1E102K | 1000P 25V | [M] |
| C4422 | ECJ0EB1E102K | 1000P 25V | [M] |
| C4423 | ECJ0EB1E102K | 1000P 25V | [M] |
| C4424 | ECJ0EB1E102K | 1000P 25V | [M] |
| C4425 | ECJ0EB1E102K | 1000P 25V | [M] |
| C4426 | ECJ0EB1E102K | 1000P 25V | [M] |
| C4427 | EEEHB0J470R | 47P 6.3V | [M] |
| C4428 | ECJ0EF1C104Z | 0.1 16V | [M] |
| C4429 | ECJ0EB1A104K | 0.1 10V | [M] |
| C4430 | ECST1AY106R | 10 10V | [M] |
| C4431 | ECJ0EF1C104Z | 0.1 16V | [M] |
| C4432 | ECJ0EF1C104Z | 0.1 16V | [M] |
| C4433 | EEEHB1C100R | 10P 16V | [M] |
| C4434 | ECJ0EF1C104Z | 0.1 16V | [M] |
| C6001 | ECJ0EF1C104Z | 0.1 16V | [M] |
| C6002 | F1J0J106A016 | 10 6.3V | [M] |
| C6003 | ECJ0EB1C103K | 0.01 16V | [M] |
| C7001 | ECJ1VB1H103K | 0.01 50V | [M] |
| C7002 | ECJ1VC1H101J | 100P 50V | [M] |
| C7003 | ECJ1VC1H101J | 100P 50V | [M] |
| C7004 | ECJ1VC1H101J | 100P 50V | [M] |
| C7005 | ECJ1VC1H101J | 100P 50V | [M] |
| C7006 | ECJ1VB1H103K | 0.01 50V | [M] |
| C7008 | ECJ1VB1C105K | 1 16V | [M] |
| C7011 | ECJ1VB1H103K | 0.01 50V | [M] |
| C7401 | ECJ1VC1H030C | 3P 50V | [M] |
| C7404 | ECJ1VB1H103K | 0.01 50V | [M] |
| C7405 | F2A0J470A012 | 47P 6.3V | [M] |

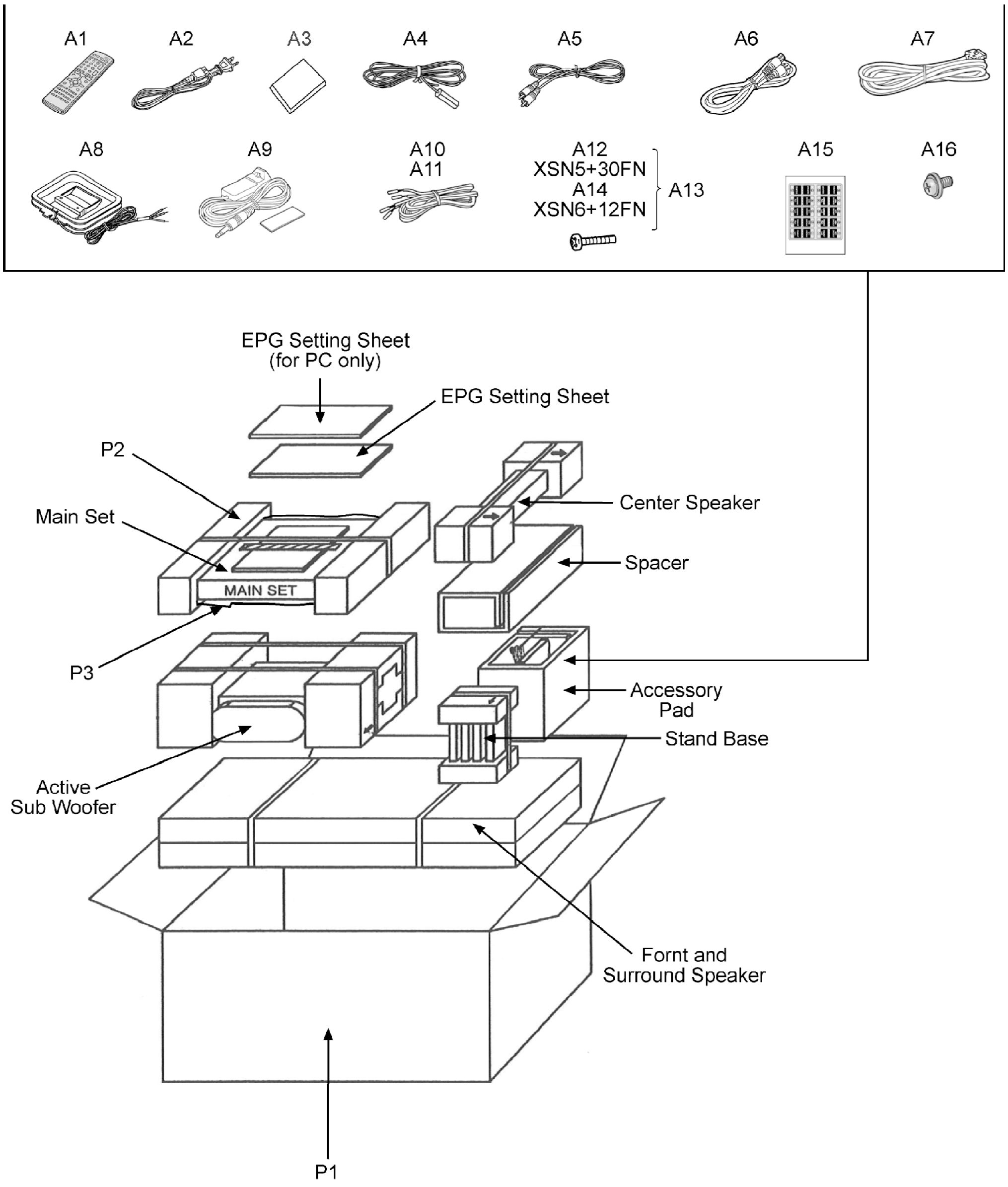
| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| C7406 | ECUV1C104KBV | 0.1 16V | [M] |
| C7407 | ECUV1C104KBV | 0.1 16V | [M] |
| C7416 | ECJ1VB1H103K | 0.01 50V | [M] |
| C7417 | F2A1H1R00071 | 1P 50V | [M] |
| C7432 | F2A1C100A494 | 10P 16V | [M] |
| C7433 | F2A1C100A494 | 10P 16V | [M] |
| C7436 | ECUV1C104KBV | 0.1 16V | [M] |
| C7437 | F2A0J470A012 | 47P 6.3V | [M] |
| C7502 | ECUV1C104KBV | 0.1 16V | [M] |
| C7503 | ECEA0JKS101B | 100 6.3V | [M] |
| C7510 | ECJ1VF1A105Z | 1 10V | [M] |
| C7525 | ECJ1VC1H101J | 100P 50V | [M] |
| C7526 | ECJ1VF1C104Z | 0.1 16V | [M] |
| C7528 | ECJ1VF1C104Z | 0.1 16V | [M] |
| C7550 | ECJ1VB1H103K | 0.01 50V | [M] |
| C7551 | F2A1H100A248 | 10P 50V | [M] |
| C7552 | ECJ1VF1H104Z | 0.1 50V | [M] |
| C7555 | F2A1C101A243 | 100P 16V | [M] |
| C7556 | F2A0J221A256 | 220P 6.3V | [M] |
| C7557 | ECQB1H473KF3 | 0.047 50V | [M] |
| C7558 | F2A1V470A190 | 47P 35V | [M] |
| C7559 | ECQB1H223KF3 | 0.022 50V | [M] |
| C7560 | F2A1H100A248 | 10P 50V | [M] |
| C7565 | F1J0J475A008 | 4.7 6.3V | [M] |
| C7566 | ECUV1C104KBV | 0.1 16V | [M] |
| C7567 | ECUV1C104KBV | 0.1 16V | [M] |
| C7569 | ECJ1VF1C104Z | 0.1 16V | [M] |
| C7580 | ECJ1VC1H101J | 100P 50V | [M] |
| C7581 | ECJ1VC1H101J | 100P 50V | [M] |
| C7582 | ECJ1VC1H101J | 100P 50V | [M] |
| C7583 | ECJ1VC1H101J | 100P 50V | [M] |
| C7584 | ECJ1VC1H180J | 18P 50V | [M] |
| C7585 | ECJ1VC1H180J | 18P 50V | [M] |
| C7586 | ECJ1VC1H220J | 22P 50V | [M] |
| C7587 | ECJ1VC1H150J | 15P 50V | [M] |
| C7588 | F1J0J475A008 | 4.7 6.3V | [M] |
| C7589 | ECJ1VF1C104Z | 0.1 16V | [M] |
| C7595 | ECJ1VF1C104Z | 0.1 16V | [M] |
| C7596 | ECJ1VC1H470J | 47P 50V | [M] |
| C7597 | ECJ1VB1H103K | 0.01 50V | [M] |
| C7598 | ECJ1VC1H470J | 47P 50V | [M] |
| C7599 | ECUV1C104KBV | 0.1 16V | [M] |
| C7600 | ECJ1VC1H470J | 47P 50V | [M] |
| C7601 | ECUV1C104KBV | 0.1 16V | [M] |
| C7602 | ECJ1VB1H103K | 0.01 50V | [M] |
| C7604 | ECJ1VF1C104Z | 0.1 16V | [M] |
| C7607 | ECJ1VF1C104Z | 0.1 16V | [M] |
| C7609 | ECJ1VC1H100D | 10P 50V | [M] |
| C7610 | ECJ1VC1H100D | 10P 50V | [M] |
| C7611 | ECJ1VB1H103K | 0.01 50V | [M] |
| C7612 | ECJ1VB1H103K | 0.01 50V | [M] |
| C7613 | ECJ1VB1H103K | 0.01 50V | [M] |
| C7618 | ECJ1VB1H103K | 0.01 50V | [M] |
| C7620 | ECJ1VB1H103K | 0.01 50V | [M] |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| C7626 | ECJ1VB1H103K | 0.01 50V | [M] |
| C7633 | F2A0J221A256 | 220P 6.3V | [M] |
| C7636 | ECJ1VF1A105Z | 1 10V | [M] |
| C7637 | ECJ1VB1H103K | 0.01 50V | [M] |
| C7639 | ECJ1VF1C104Z | 0.1 16V | [M] |
| C7650 | ECJ1VB1H103K | 0.01 50V | [M] |
| C7652 | ECJ1VF1A105Z | 1 10V | [M] |
| C7653 | ECUV1C104KBV | 0.1 16V | [M] |
| C7654 | ECJ1VB1H103K | 0.01 50V | [M] |
| C7657 | ECJ1VF1H104Z | 0.1 50V | [M] |
| C7800 | ECJ1VB1H103K | 0.01 50V | [M] |
| C7801 | ECJ1VB1H123K | 0.012 50V | [M] |
| C7803 | ECJ1VB1H123K | 0.012 50V | [M] |
| C7805 | ECJ1VC1H101K | 100P 50V | [M] |
| C7806 | ECJ1VC1H101K | 100P 50V | [M] |
| C8003 | ECUV1C104KBV | 0.1 16V | [M] |
| C8004 | ECJ1VC1H101J | 100P 50V | [M] |
| C8005 | F2A0J470A012 | 47P 6.3V | [M] |
| C8006 | ECUV1C104KBV | 0.1 16V | [M] |
| C8007 | ECUV1C104KBV | 0.1 16V | [M] |
| C8008 | ECUV1C104KBV | 0.1 16V | [M] |
| C8010 | ECJ1VC1H101J | 100P 50V | [M] |
| C8011 | ECJ1VB1H103K | 0.01 50V | [M] |
| C8012 | ECJ1VB1H103K | 0.01 50V | [M] |
| C8013 | ECJ1VB1H103K | 0.01 50V | [M] |
| C8014 | ECUV1C104KBV | 0.1 16V | [M] |
| C9001 | ECJ0EC1H470J | 47P 50V | [M] |
| C9002 | ECJ0EC1H470J | 47P 50V | [M] |
| C50001 | ECJ1VB0J105K | 1 6.3V | [M] |
| C50002 | F1K0J226A004 | 22 6.3V | [M] |
| C50004 | ECJ0EB1A104K | 0.1 10V | [M] |
| C50005 | ECJ0EB1A104K | 0.1 10V | [M] |

## 30.3. Packaging Materials & Accessories Parts List

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| | | PACKING MATERIALS | |
| | | | |
| P1 | RPG7100 | PACKING CASE | [M]P |
| P1 | RPG7101 | PACKING CASE | [M]PC |
| P2 | RPN1704 | POLYFOAM | [M] |
| P3 | RPFX0058 | MIRAMAT SHEET | [M] |
| | | | |
| | | ACCESSORIES | |
| | | | |
| A1 | EUR7624KY0 | REMOTE CONTROL | [M] |
| A1-1 | UR76EC2403A | R/C BATTERY COVER | [M] |
| A2 | K2CB2CB00006 | POWER CORD (UL) | [M] ⚠ |
| A3 | RQT7619-P | O/I BOOK (En) | [M] |
| A3 | RQT7620-C | O/I BOOK (Cf) | [M]PC |
| A3 | RQT7625-P | O/I FOR SETUP (En) | [M] |
| A3 | RQT7626-C | O/I FOR SETUP (Cf) | [M]PC |
| A4 | RSA0007-L | FM ANTENNA | [M] |
| A5 | RJL1P016B15A | VIDEO CABLE | [M] |
| A6 | K1TXAAA00001 | RF CABLE | [M] |
| A7 | K1HA25HA0003 | SYSTEM CABLE | [M] |
| A8 | N1DAAAA00002 | AM LOOP ANTENNA | [M] |
| A9 | K2ZZ04C00001 | WIRED RC | [M] |
| A10 | REE1203A-J | SP CORD | [M] |
| A11 | REE1203C-J | SP CORD | [M] |
| A12 | XSN5+30FN | SCREW | [M] |
| A13 | RYQ0505-K | PRE SCREW | [M] |
| A14 | XSN6+12FN | SCREW | [M] |
| A15 | RQCA1029 | SPEAKER LABEL | [M] |
| A16 | RHD50015 | SCREW | [M] |

## 30.4. Packaging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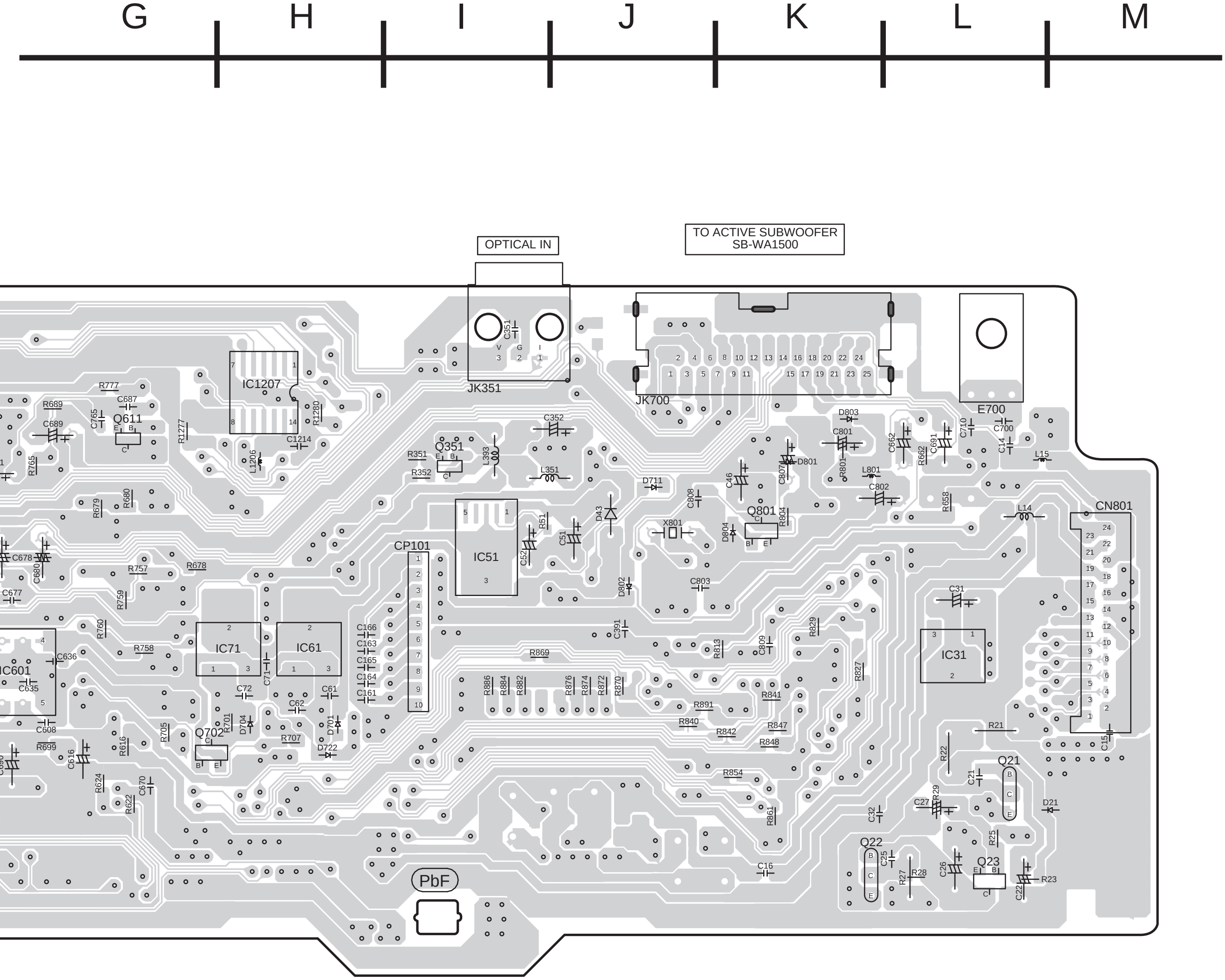
A2
A3
A4
A5
A6
A7
A8
A9
A10
A11
A12
XSN5+30FN
A14
XSN6+12FN
A13
A15
A16
EPG Setting Sheet
(for PC only)
EPG Setting Sheet
P2
Main Set
MAIN SET
Center Speaker
Spacer
P3
Accessory
Pad
Stand Base
Active
Sub Woofer
Fornt and
Surround Speaker
P1

**FLE0406D/A/J/M/S/E**



G
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M
OPTICAL IN
TO ACTIVE SUBWOOFER
SB-WA1500
JK351
C351
JK700
E700
IC1207
R1277
R1280
C1214
L1206
R777
C687
R689
C689
C765
Q611
R765
R679
R680
C678
C680
C677
R757
R678
R759
R760
R758
C636
IC601
C635
C608
R699
C616
R616
R705
R624
C670
R622
Q702
R701
D704
IC71
IC61
C71
C72
C62
C61
R707
D701
D722
CP101
C166
C163
C165
C164
C161
R351
R352
Q351
L393
C352
L351
IC51
R51
C52
C51
D43
D711
D802
C391
R869
R886
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R882
R876
R874
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X801
D804
Q801
R804
C803
C46
C807
D801
C801
R801
D803
L801
C802
C809
R813
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C691
C710
C700
C14
L15
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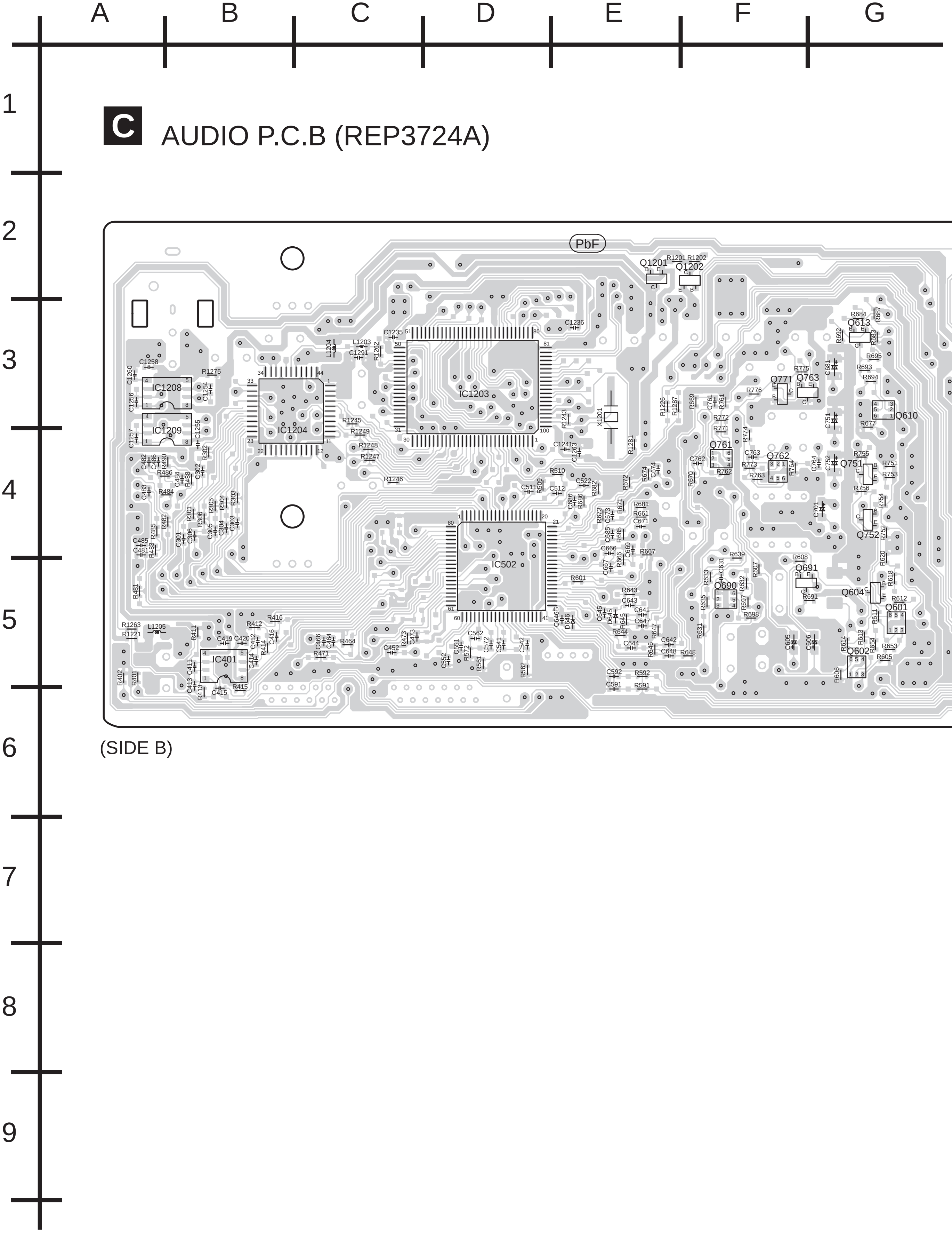
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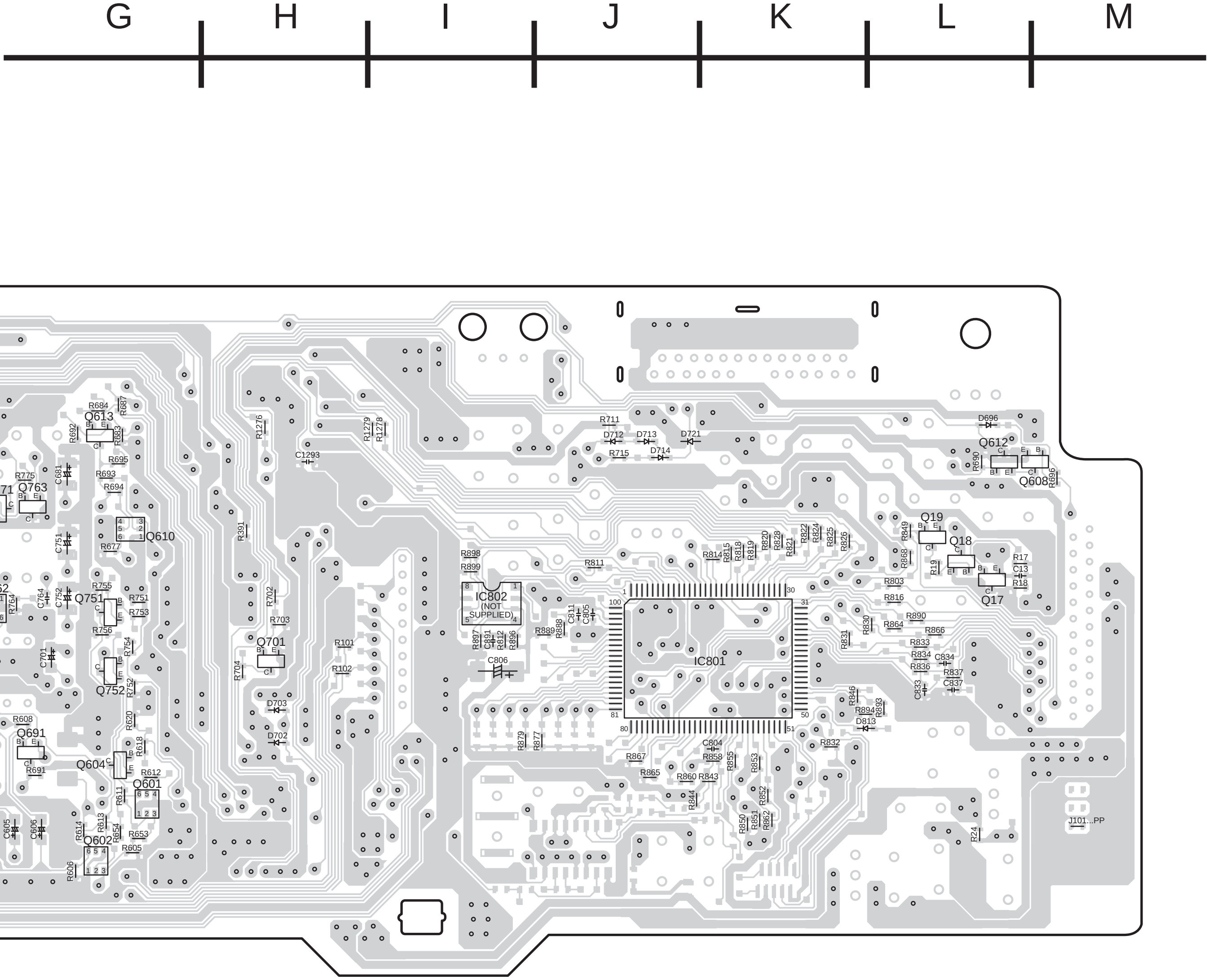
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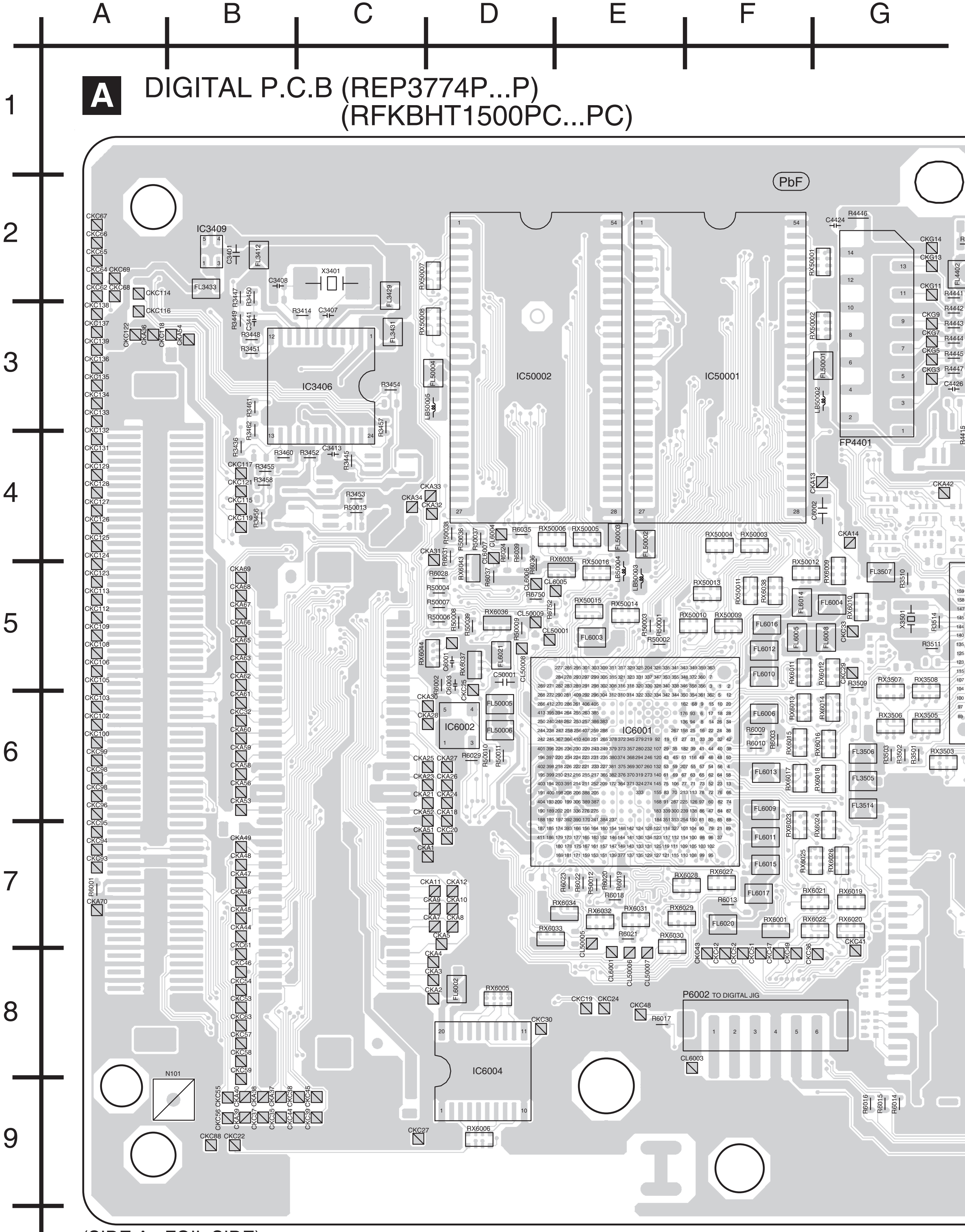

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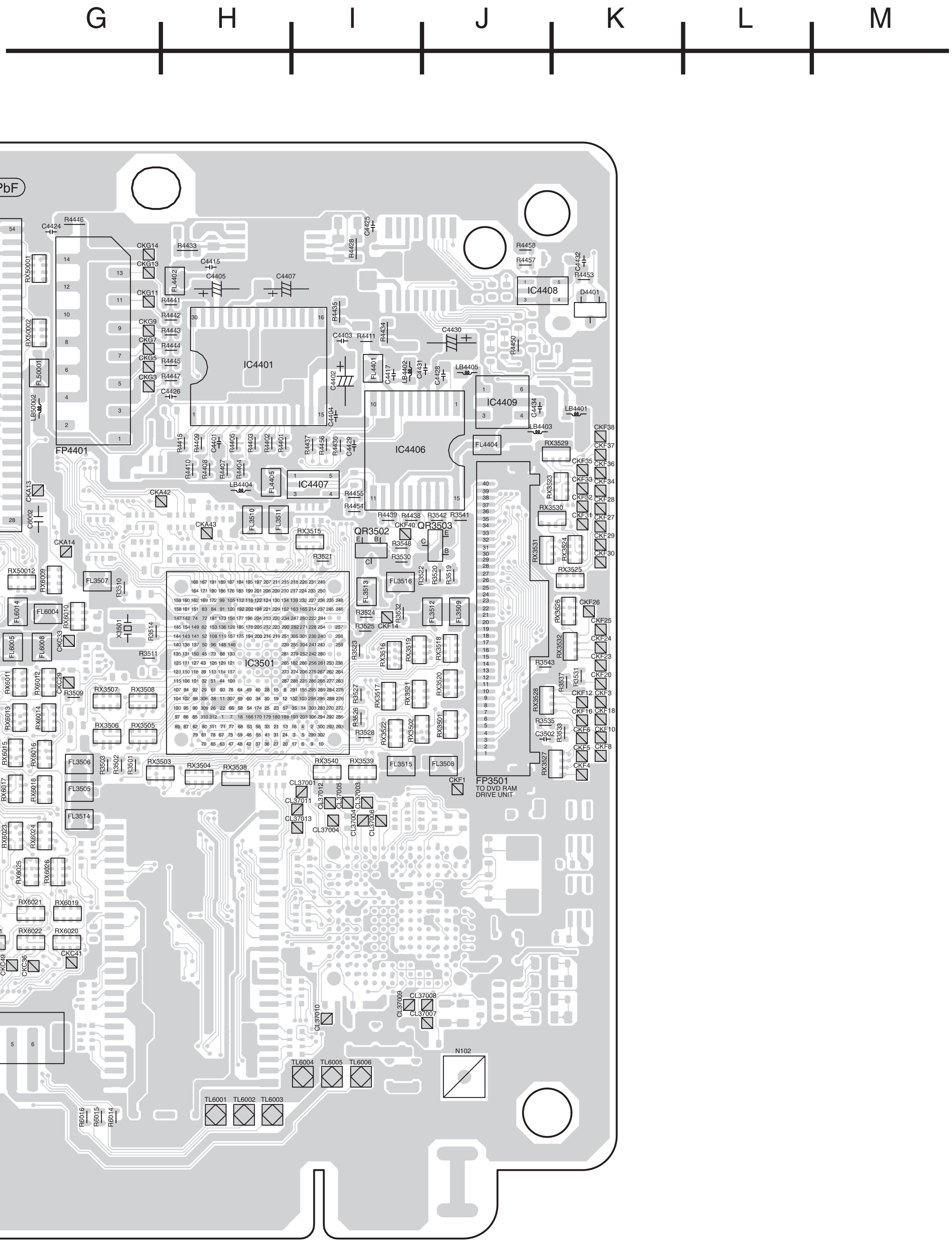
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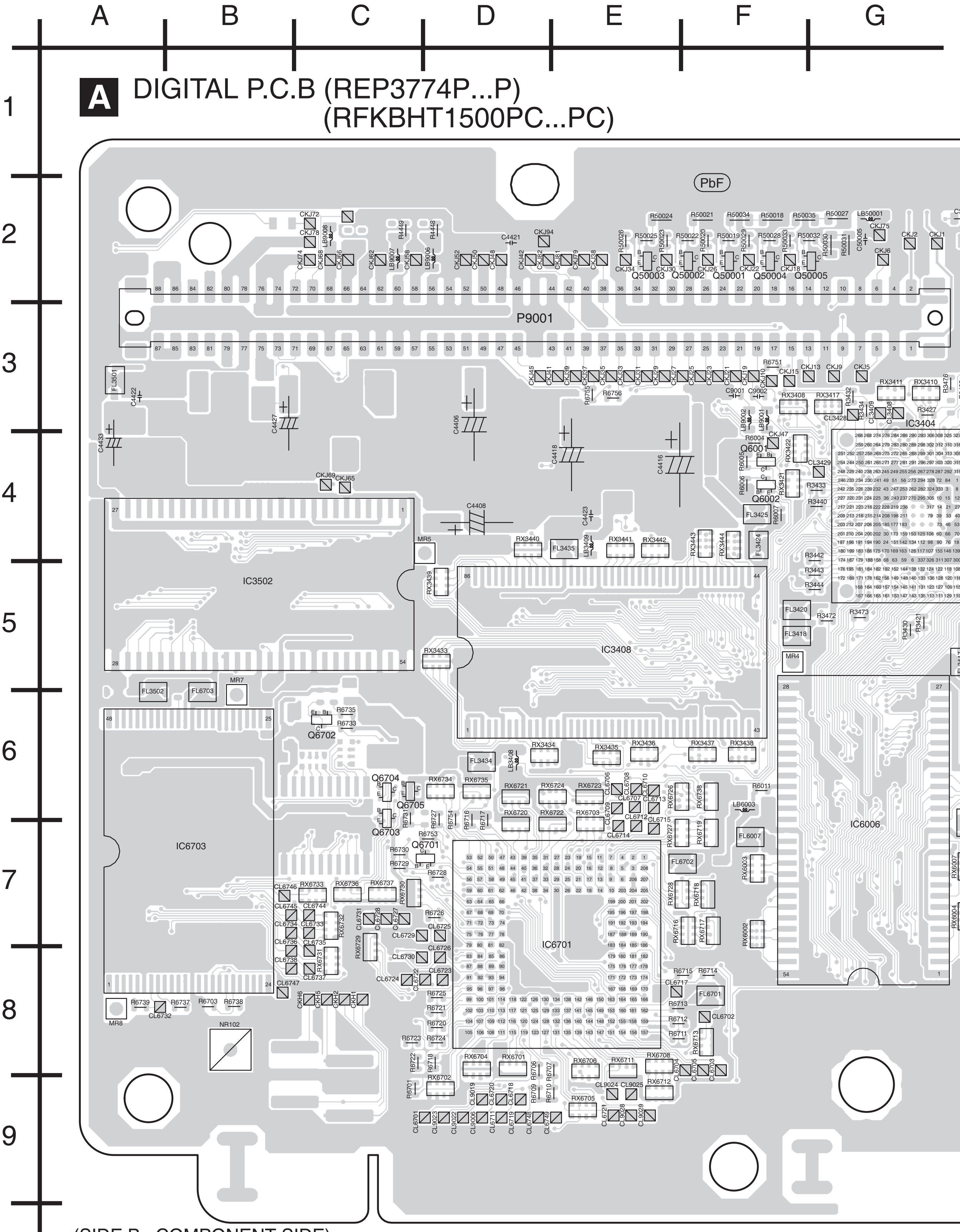
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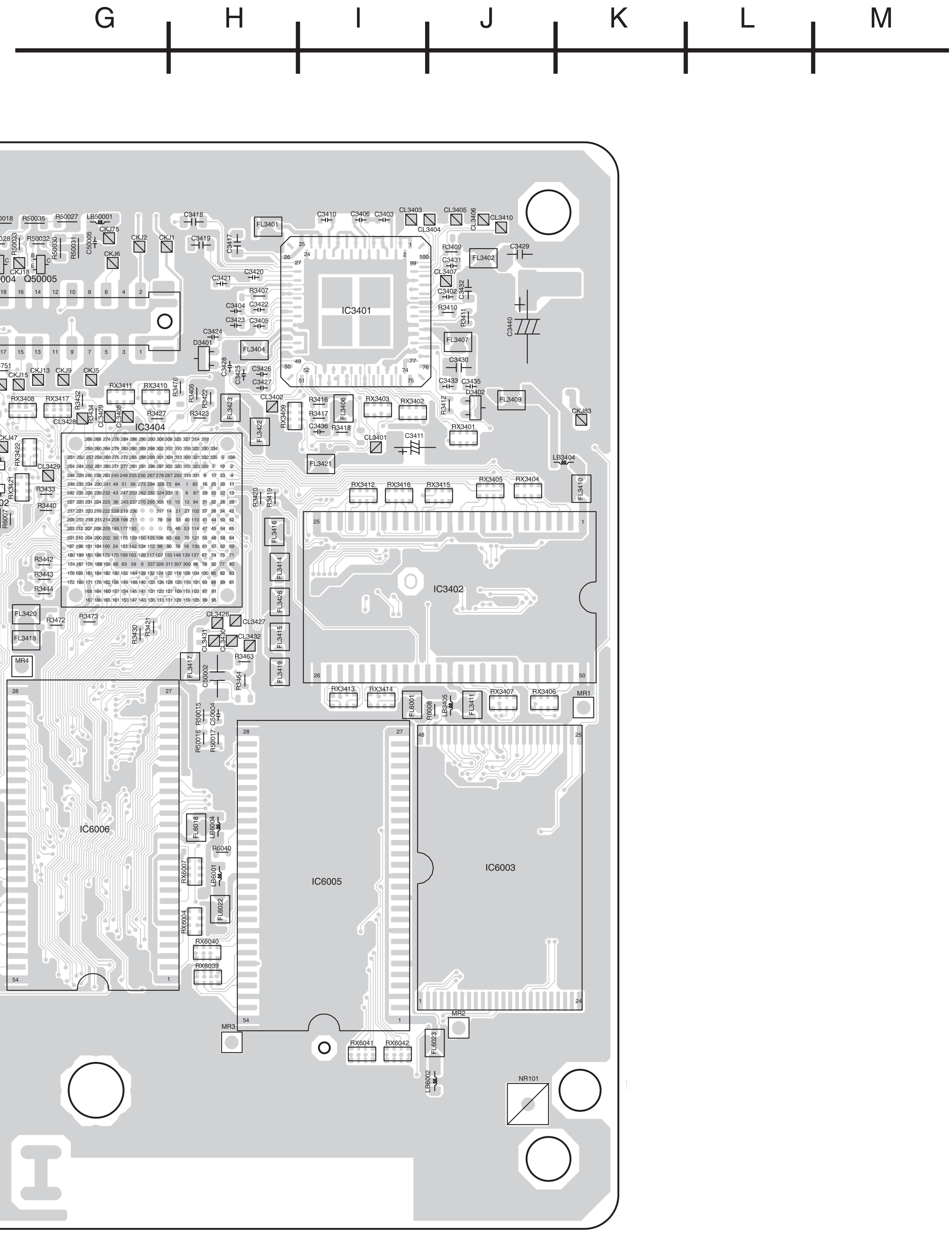
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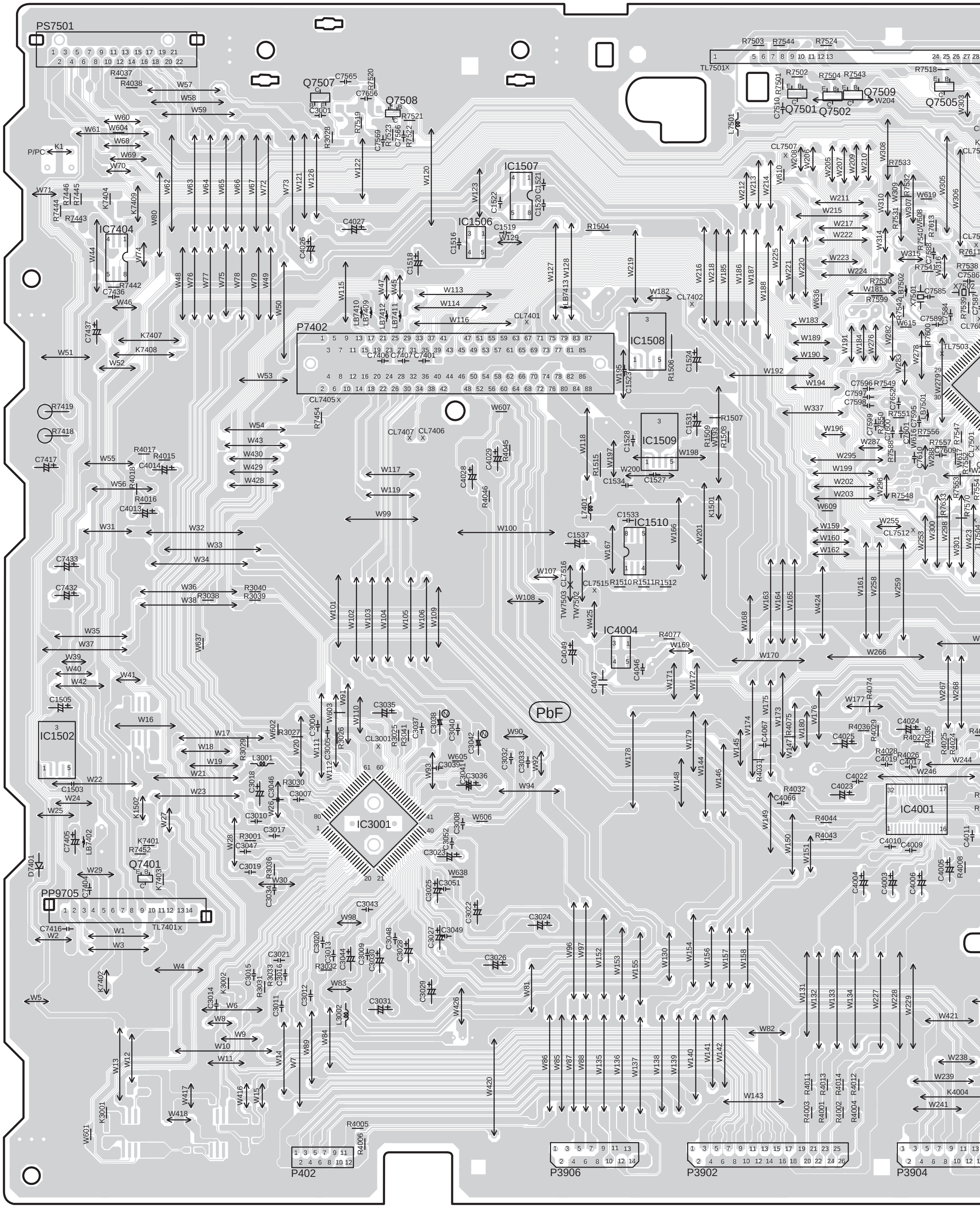
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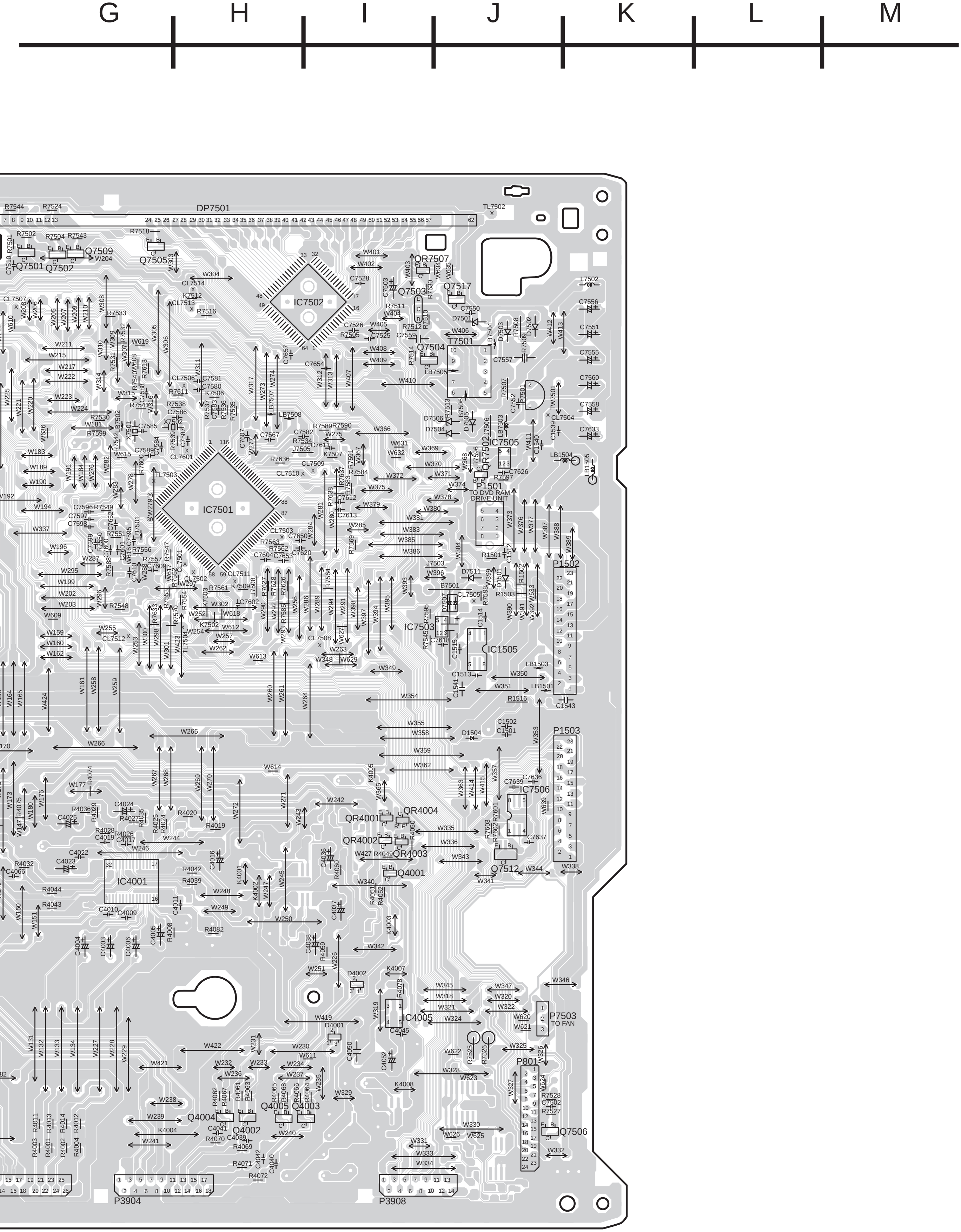
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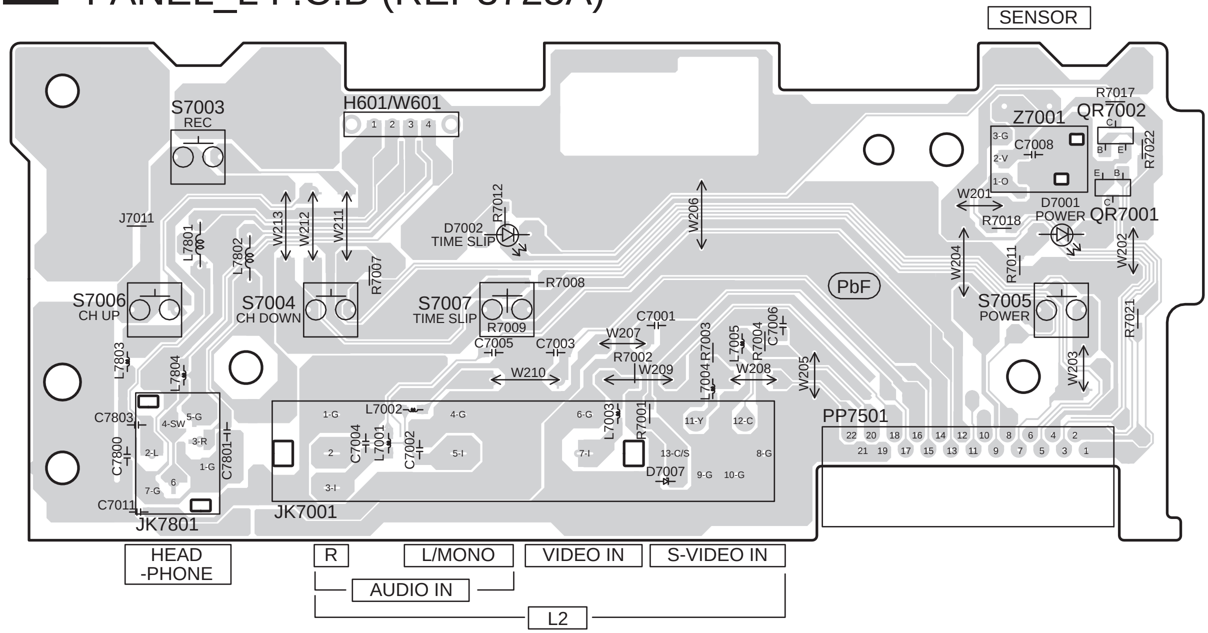
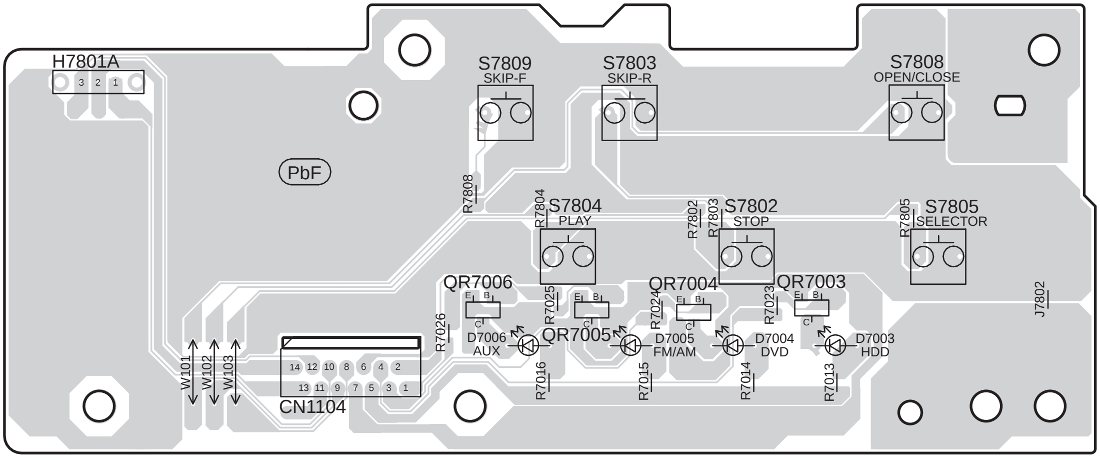
X7501
X7502
D1501
D1504
D4001
D4002
D7501
D7502
D7503
D7504
D7505
D7506
D7507
D7511
L7502
LB1501
LB1503
LB1504
LB1505
B7501

A
B
C
D
E
F
G
1
2
3
4
5
6
7
8
9

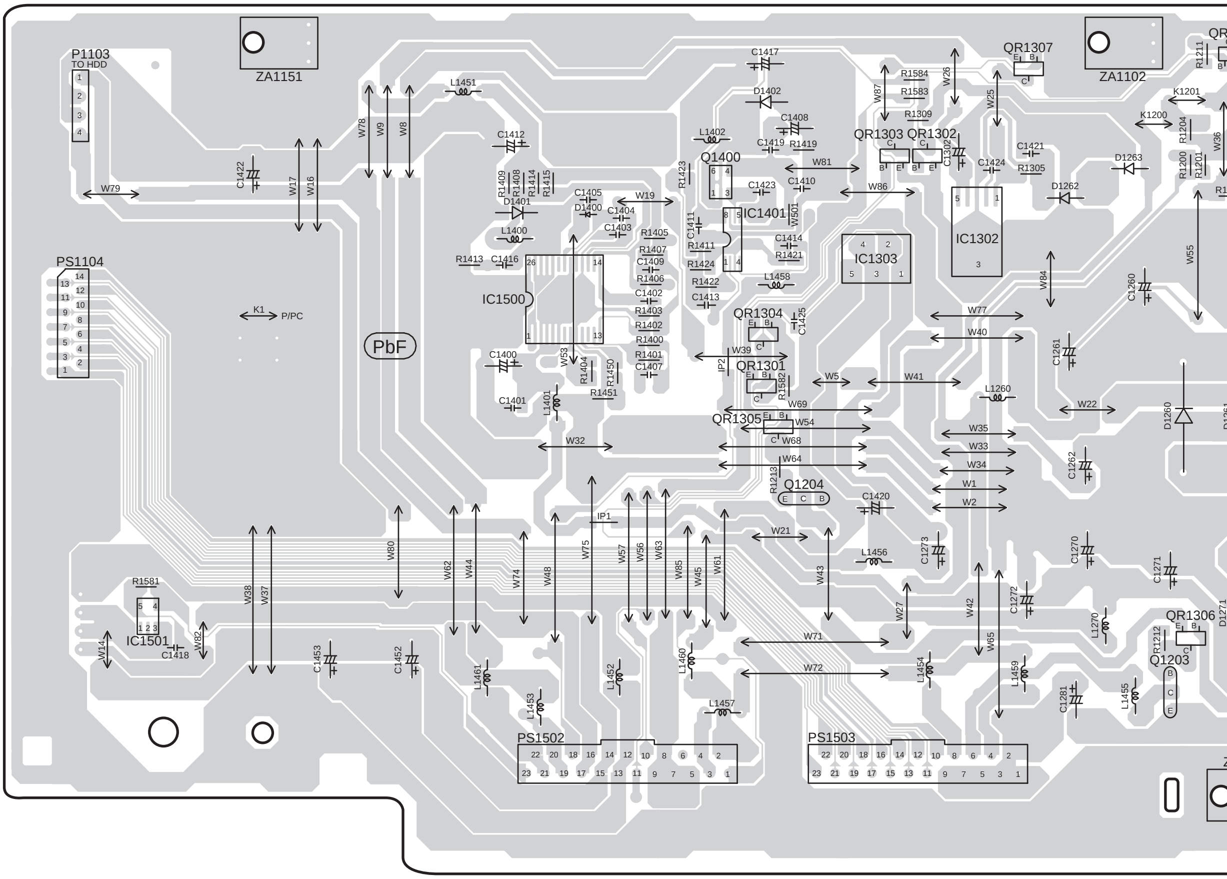
## E PANEL_L P.C.B (REP3725A)

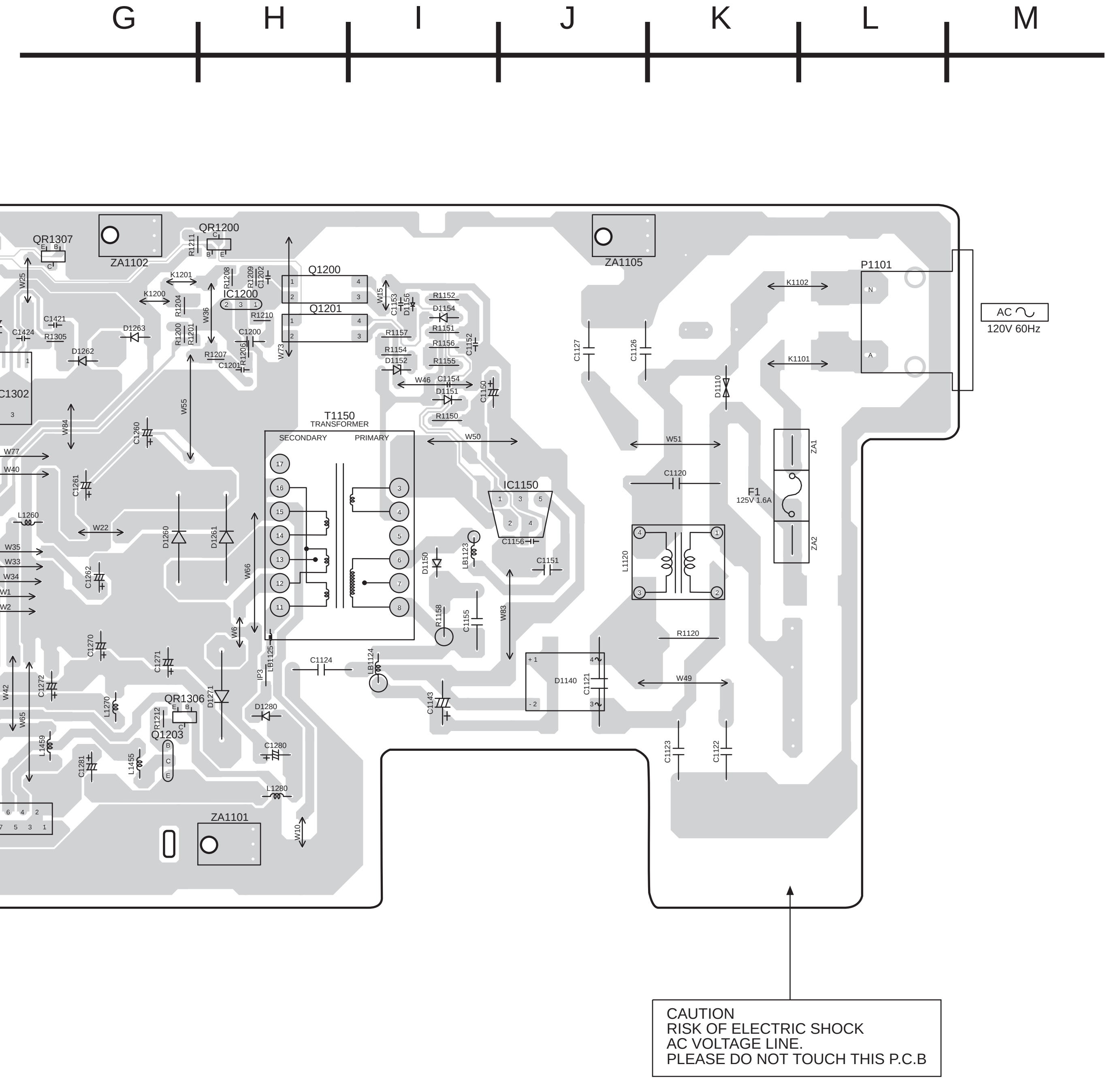

SENSOR
S7003
REC
H601/W601
1 2 3 4
J7011
L7801
L7802
W213
W212
W211
R7012
D7002
TIME SLIP
R7007
W206
Z7001
R7017
QR7002
3-G
2-V
1-O
C7008
R7022
W201
D7001
POWER
QR7001
R7018
W204
R7011
W202
S7006
CH UP
S7004
CH DOWN
S7007
TIME SLIP
R7008
R7009
PbF
S7005
POWER
R7021
C7005
C7003
C7001
W207
R7002
R7003
L7005
R7004
C7006
W210
W209
W208
W205
W203
L7803
L7804
C7803
4-SW
5-G
3-R
2-L
1-G
6
7-G
C7800
C7801
C7011
JK7801
1-G
L7002
4-G
2
C7004
L7001
C7002
5-I
3-I
JK7001
6-G
7-I
L7003
R7001
L7004
11-Y
12-C
13-C/S
8-G
9-G
10-G
D7007
PP7501
22 20 18 16 14 12 10 8 6 4 2
21 19 17 15 13 11 9 7 5 3 1
HEAD
-PHONE
R
L/MONO
VIDEO IN
S-VIDEO IN
AUDIO IN
L2

## F PANEL_R P.C.B (REP3725A)


H7801A
3 2 1
S7809
SKIP-F
S7803
SKIP-R
S7808
OPEN/CLOSE
PbF
R7808
R7804
S7804
PLAY
R7802
R7803
S7802
STOP
R7805
S7805
SELECTOR
QR7006
QR7004
QR7003
R7025
R7024
R7023
J7802
R7026
QR7005
D7006
AUX
D7005
FM/AM
D7004
DVD
D7003
HDD
W101
W102
W103
14 12 10 8 6 4 2
13 11 9 7 5 3 1
CN1104
R7016
R7015
R7014
R7013

## D POWER P.C.B (REP3722A)


A
B
C
D
E
F
G
1
2
3
4
5
6
7
8
9
P1103
TO HDD
ZA1151
L1451
W78
W9
W8
C1417
D1402
C1408
C1419
R1419
L1402
Q1400
W81
C1423
C1410
R1423
W86
R1584
R1583
R1309
W87
W26
W25
QR1307
ZA1102
QR1303
QR1302
C1302
C1424
C1421
R1305
K1201
K1200
R1204
R1200
R1201
R1211
D1263
D1262
W36
C1422
W79
W17
W16
C1412
R1409
R1408
R1414
R1415
D1401
C1405
D1400
C1404
C1403
W19
L1400
R1405
R1407
C1409
R1406
C1402
R1403
R1402
R1400
R1401
C1407
R1413
C1416
IC1500
26
14
1
13
C1411
R1411
R1424
R1422
C1413
IC1401
W501
C1414
R1421
L1458
IC1303
IC1302
C1425
QR1304
W39
IP2
QR1301
R1582
W5
W41
W77
W40
W84
W55
C1260
C1261
L1260
W22
D1260
PS1104
K1
P/PC
PbF
C1400
R1404
R1450
R1451
W53
C1401
L1401
W32
QR1305
W69
W54
W68
W64
R1213
Q1204
E C B
C1420
W35
W33
W34
W1
W2
C1262
IP1
W80
W62
W44
W74
W48
W75
W57
W56
W63
W85
W45
W61
W21
W43
L1456
C1273
C1270
C1271
C1272
W27
W42
W65
L1270
R1212
QR1306
Q1203
D1271
R1581
IC1501
C1418
W82
W14
W38
W37
C1453
C1452
L1461
L1453
L1452
L1460
W71
W72
L1457
L1454
L1459
C1281
L1455
PS1502
PS1503
22 20 18 16 14 12 10 8 6 4 2
23 21 19 17 15 13 11 9 7 5 3 1

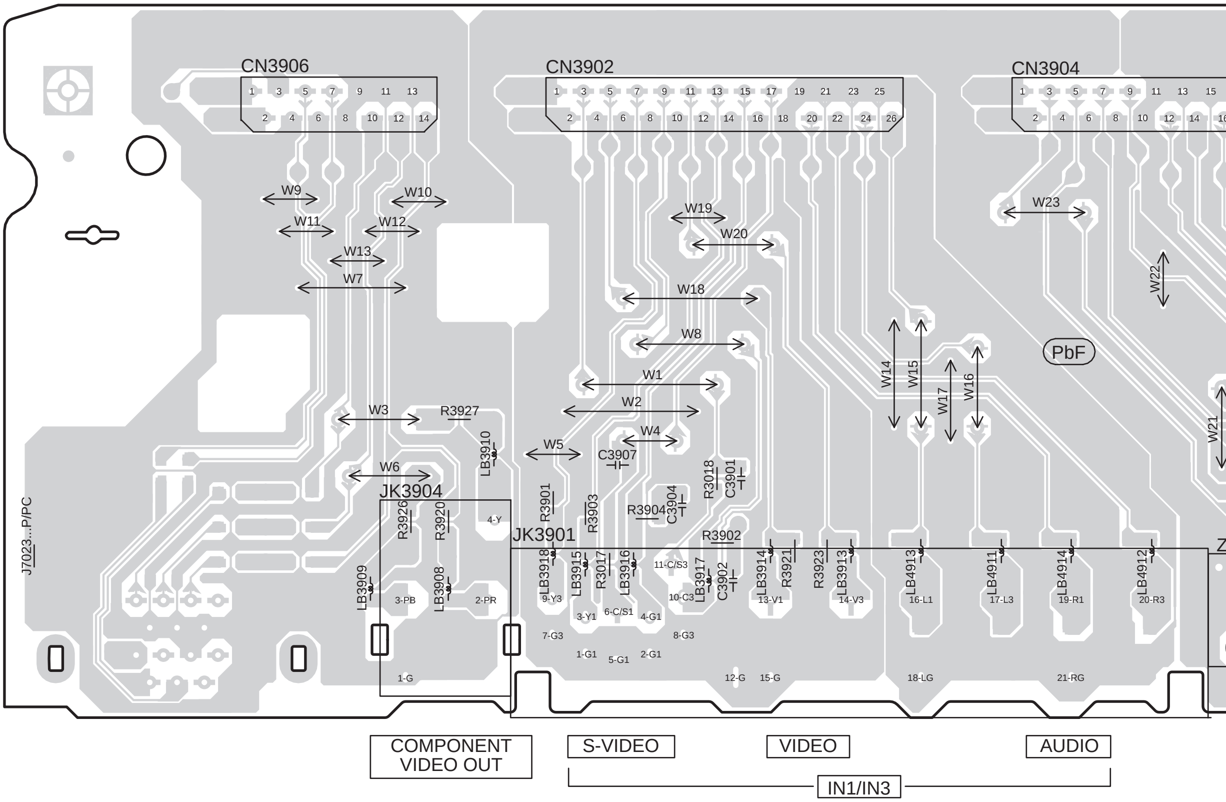

G
H
I
J
K
L
M
QR1307
ZA1102
QR1200
R1211
ZA1105
P1101
AC
120V 60Hz
K1102
K1101
W25
K1201
K1200
R1208
R1209
C1202
IC1200
Q1200
Q1201
W15
C1153
D1156
R1152
D1154
R1151
R1156
C1152
R1155
R1157
R1154
D1152
W46
C1154
D1151
C1150
R1150
C1127
C1126
D1110
C1421
C1424
R1305
D1263
D1262
R1204
R1200
R1201
W36
R1210
C1200
R1207
C1201
R1206
W73
C1302
W55
W84
C1260
T1150
TRANSFORMER
SECONDARY
PRIMARY
W50
W51
ZA1
ZA2
F1
125V 1.6A
C1120
IC1150
C1156
C1151
L1120
W77
W40
C1261
L1260
W22
D1260
D1261
W35
W33
W34
W1
W2
C1262
W66
D1150
LB1123
R1158
C1155
W83
R1120
C1270
C1271
W6
LB1125
IP3
C1124
LB1124
C1143
D1140
C1121
W49
W42
C1272
W65
L1270
QR1306
R1212
Q1203
D1271
D1280
C1280
L1459
C1281
L1455
C1123
C1122
L1280
ZA1101
W10

CAUTION
RISK OF ELECTRIC SHOCK
AC VOLTAGE LINE.
PLEASE DO NOT TOUCH THIS P.C.B

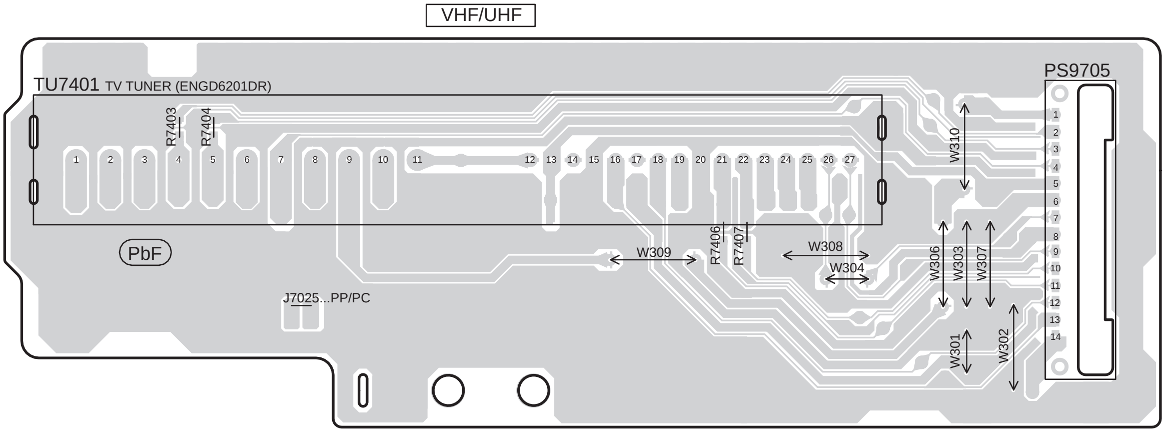
A B C D E F G

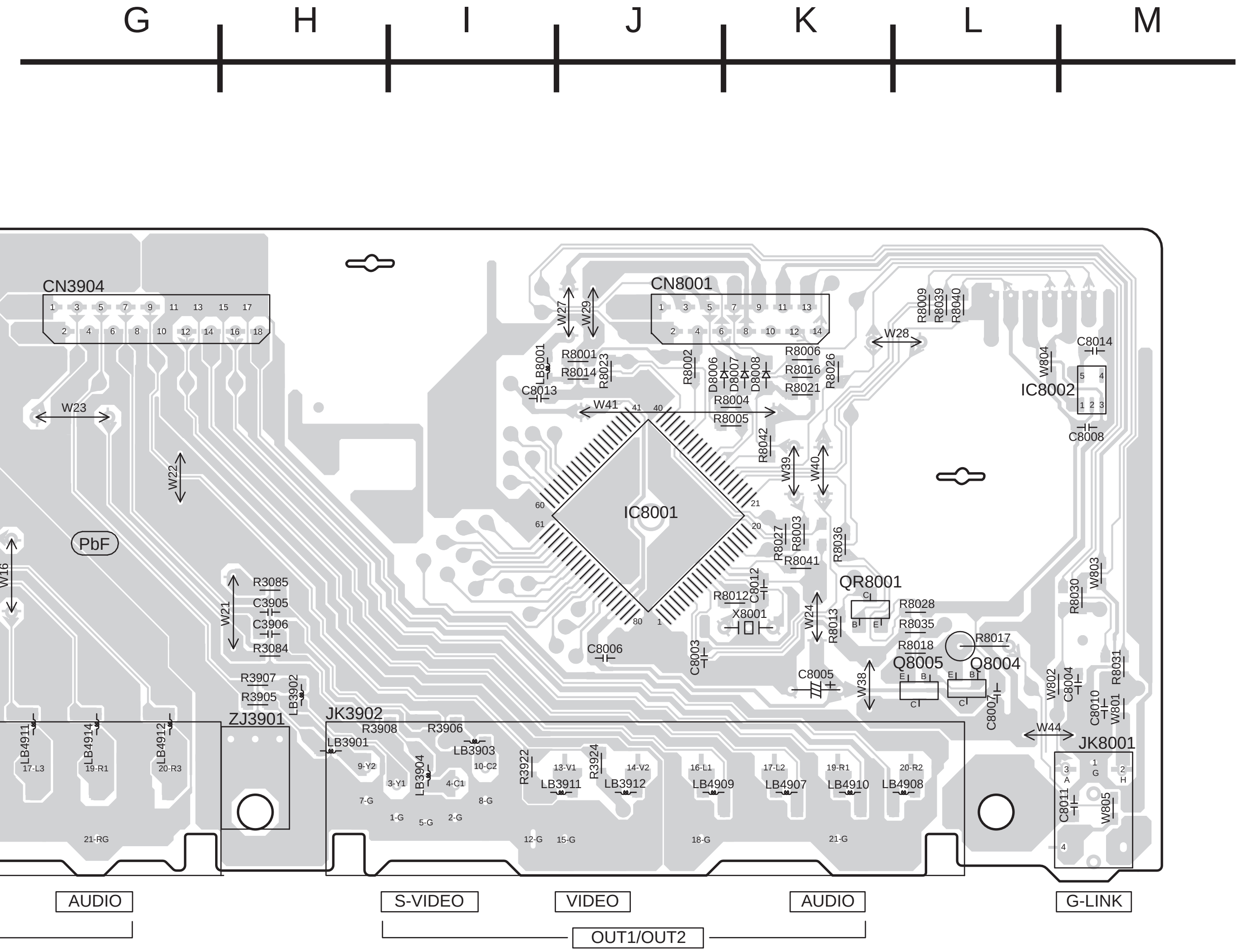
1 2 3 4 5 6 7 8 9

## G TERMINAL P.C.B (REP3725A)

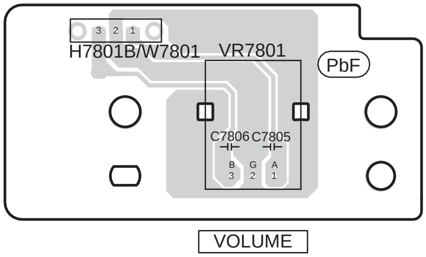

CN3906
CN3902
CN3904
W9
W10
W11
W12
W13
W7
W19
W20
W18
W8
W1
W2
W4
W5
W3
W6
W23
W22
W14
W15
W17
W16
W21
PbF
R3927
LB3910
C3907
R3901
R3903
R3904
C3904
R3018
C3901
R3902
JK3904
JK3901
R3926
R3920
LB3909
LB3908
LB3918
LB3915
R3017
LB3916
LB3917
C3902
LB3914
R3921
R3923
LB3913
LB4913
LB4911
LB4914
LB4912
J7023...P/PC
3-PB
2-PR
4-Y
1-G
9-Y3
7-G3
3-Y1
6-C/S1
4-G1
11-C/S3
10-C3
8-G3
1-G1
5-G1
2-G1
13-V1
14-V3
12-G
15-G
16-L1
17-L3
19-R1
20-R3
18-LG
21-RG
COMPONENT VIDEO OUT
S-VIDEO
VIDEO
AUDIO
IN1/IN3

## H TV TUNER INTERFACE P.C.B (REP3725A)

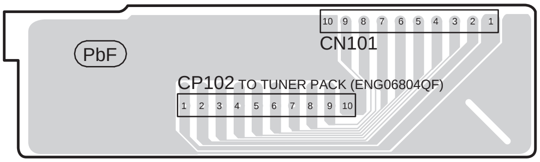

VHF/UHF
TU7401 TV TUNER (ENGD6201DR)
R7403
R7404
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
PS9705
W310
PbF
W309
R7406
R7407
W308
W304
W306
W303
W307
W301
W302
J7025...PP/PC


G
H
I
J
K
L
M
CN3904
CN8001
W27
W29
R8009
R8039
R8040
W28
C8014
W804
IC8002
C8008
LB8001
R8001
R8014
R8023
C8013
R8002
D8006
D8007
D8008
R8006
R8016
R8021
R8026
R8004
R8005
W41
W23
W22
R8042
W39
W40
IC8001
R8027
R8003
R8041
R8036
PbF
W16
R3085
C3905
C3906
R3084
W21
R8012
C8012
X8001
QR8001
R8028
R8035
R8018
R8017
W24
R8013
W803
R8030
C8006
C8003
C8005
W38
Q8005
Q8004
C8007
W802
C8004
R8031
C8010
W801
R3907
R3905
LB3902
ZJ3901
JK3902
R3908
R3906
LB3901
LB3903
LB3904
R3922
R3924
LB3911
LB3912
LB4909
LB4907
LB4910
LB4908
LB4911
LB4914
LB4912
W44
JK8001
C8011
W805
17-L3
19-R1
20-R3
21-RG
9-Y2
3-Y1
4-C1
10-C2
7-G
1-G
5-G
2-G
8-G
13-V1
14-V2
16-L1
17-L2
19-R1
20-R2
12-G
15-G
18-G
21-G
AUDIO
S-VIDEO
VIDEO
AUDIO
G-LINK
OUT1/OUT2

## I VOLUME P.C.B (REP3725A)


3 2 1
H7801B/W7801
VR7801
PbF
C7806
C7805
B 3
G 2
A 1
VOLUME

## J FM/AM TUNER EXTEND P.C.B (REP3724A)


10 9 8 7 6 5 4 3 2 1
CN101
PbF
CP102 TO TUNER PACK (ENG06804QF)
1 2 3 4 5 6 7 8 9 10

| Ref No. / MODE | QR7001 | | | QR7002 | | | QR7003 | | | QR7004 | | | QR7006 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | E | C | B | E | C | B | E | C | B | E | C | B | E | C | B |
| REC | 0 | 5V | 4.9 | 0 | 5V | 4.9 | 0 | 0.1 | 4.9 | 0 | 0.1 | 4.9 | 0 | 0.1 | 4.9 |
| PLAY | 0 | 5V | 4.9 | 0 | 5V | 4.9 | 0 | 0.1 | 4.9 | 0 | 0.1 | 4.9 | 0 | 0.1 | 4.9 |
| STOP | 0 | 5V | 0 | 0 | 5V | 0 | 0 | 0.1 | 4.9 | 0 | 0.1 | 4.9 | 0 | 0.1 | 4.9 |

| Ref No. | IC1150 | | | | | | IC1200 | | | | IC1270 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MODE | 1 | 2 | 3 | 4 | 5 | | 1 | 2 | 3 | | 1 | 2 | 3 | 4 | 5 | | | | | |
| REC | 2.3 | 1.8 | 0 | 14.6 | -205 | | 5.2 | 2.5 | 0 | | 0 | 1.8 | 12.1 | 12.1 | 13.1 | | | | | |
| PLAY | 2.3 | 1.8 | 0 | 14.6 | -234 | | 5.2 | 2.5 | 0 | | 0 | 1.8 | 12.1 | 12.1 | 13.1 | | | | | |
| STOP | 2.3 | 1.8 | 0 | 14.6 | -229 | | 5.2 | 2.5 | 0 | | 0 | 1.8 | 12.1 | 12.1 | 13.1 | | | | | |

| Ref No. | IC1400 | | | | | | | | | IC1401 | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MODE | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | |
| REC | 12.3 | 0 | 1.5 | 4.2 | 0 | 1.3 | 0.8 | 5.4 | | 13.1 | 4.5 | 1.2 | 1.3 | 1.2 | 0 | 11.6 | 13.1 | | | |
| PLAY | 12.3 | 0 | 1.5 | 4.3 | 0 | 1.3 | 0.8 | 5.0 | | 13.1 | 4.5 | 1.2 | 1.2 | 1.2 | 0 | 11.6 | 13.1 | | | |
| STOP | 12.3 | 0 | 1.5 | 4.3 | 0 | 1.3 | 0.8 | 5.3 | | 13.1 | 4.5 | 1.2 | 1.2 | 1.2 | 0 | 11.6 | 13.1 | | | |

| Ref No. | IC1500 | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MODE | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| REC | 6.0 | 6.0 | 13.1 | 13.1 | 13.1 | 13.1 | 8.7 | 12.1 | 0 | 2.6 | 4.9 | 1.8 | 2.4 | 4.3 | 5.0 | 5.1 | 0 | 0 | 13.1 | 6.7 |
| PLAY | 6.0 | 6.0 | 13.1 | 13.1 | 13.1 | 13.1 | 8.7 | 12.1 | 0 | 2.6 | 4.9 | 1.8 | 2.4 | 4.3 | 5.0 | 5.1 | 0 | 0 | 13.1 | 6.7 |
| STOP | 6.0 | 6.0 | 13.1 | 13.1 | 13.1 | 13.1 | 8.7 | 12.1 | 0 | 2.6 | 4.9 | 1.8 | 2.4 | 4.3 | 5.0 | 5.1 | 0 | 0 | 13.1 | 6.7 |

| Ref No. | IC1500 | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MODE | 21 | 22 | 23 | 24 | 25 | 26 | | | | | | | | | | | | | | |
| REC | - | 6.0 | 6.0 | 6.0 | 6.0 | 0 | | | | | | | | | | | | | | |
| PLAY | - | 6.0 | 6.0 | 6.0 | 6.0 | 0 | | | | | | | | | | | | | | |
| STOP | - | 6.0 | 6.0 | 6.0 | 6.0 | 0 | | | | | | | | | | | | | | |

| Ref No. | IC1501 | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MODE | 1 | 2 | 3 | 4 | 5 | | | | | | | | | | | | | | | |
| REC | - | 0 | 0 | 4.9 | 5.0 | | | | | | | | | | | | | | | |
| PLAY | - | 0 | 0 | 4.9 | 5.0 | | | | | | | | | | | | | | | |
| STOP | - | 0 | 0 | 4.9 | 5.0 | | | | | | | | | | | | | | | |

| Ref No. | Q1200 | | | | | Q1400 | | | | | | | Q4004 | | | | Q4005 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MODE | 1 | 2 | 3 | 4 | | 1 | 2 | 3 | 4 | 5 | 6 | | E | C | B | | E | C | B | |
| REC | 6.2 | 5.2 | 0 | 1.8 | | 0.8 | 0.8 | 11.5 | 13.1 | 0.8 | 0.8 | | 0 | 0 | -0.1 | | 0 | 0 | -0.1 | |
| PLAY | 6.2 | 5.2 | 0 | 1.8 | | 0.8 | 0.8 | 11.5 | 13.1 | 0.8 | 0.8 | | 0 | 0 | -0.1 | | 0 | 0 | -0.1 | |
| STOP | 6.2 | 5.2 | 0 | 1.8 | | 0.8 | 0.8 | 11.5 | 13.1 | 0.8 | 0.8 | | 0 | 0 | -0.1 | | 0 | 0 | -0.1 | |

| Ref No. | Q7517 | | | | Q7520 | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MODE | E | C | B | | E | C | B | | | | | | | | | | | | | |
| REC | -19.8 | -19.8 | -19.1 | | 0 | 2.7 | 0 | | | | | | | | | | | | | |
| PLAY | -19.8 | -19.8 | -19.1 | | 0 | 2.7 | 0 | | | | | | | | | | | | | |
| STOP | -19.8 | -19.8 | -19.1 | | 0 | 2.7 | 0 | | | | | | | | | | | | | |

| Ref No. | QR1300 | | | | QR1301 | | | | QR1303 | | | | QR1304 | | | | QR1307 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MODE | E | C | B | | E | C | B | | E | C | B | | E | C | B | | E | C | B | |
| REC | 0 | 4.5 | 0 | | 0 | 0 | 3.3 | | 0 | 0 | 5.0 | | 0 | 0 | 5.0 | | 0 | 0 | 3.3 | |
| PLAY | 0 | 4.5 | 0 | | 0 | 0 | 3.3 | | 0 | 0 | 5.0 | | 0 | 0 | 5.0 | | 0 | 0 | 3.3 | |
| STOP | 0 | 4.5 | 0 | | 0 | 0 | 3.3 | | 0 | 0 | 5.0 | | 0 | 0 | 5.0 | | 0 | 0 | 3.3 | |

| Ref No. | QR1308 | | | | QR7507 | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MODE | E | C | B | | E | C | B | | | | | | | | | | | | | |
| REC | 0 | 1.8 | 0 | | 4.9 | 4.9 | 0 | | | | | | | | | | | | | |
| PLAY | 0 | 1.8 | 0 | | 4.9 | 4.8 | 0 | | | | | | | | | | | | | |
| STOP | 0 | 1.8 | 0 | | 4.9 | 4.8 | 0 | | | | | | | | | | | | | |

| Ref No. | IC1502 | | | | | | IC1505 | | | | | | | | | IC1506 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MODE | 1 | 2 | 3 | 4 | 5 | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | 1 | 2 | 3 | 4 | 5 |
| REC | 6.0 | 4.9 | 5.0 | - | 0 | | 5.2 | - | 0 | 3.3 | 6.0 | - | - | 6.0 | | 1.2 | 0 | 4.9 | 6.0 | 5.0 |
| PLAY | 6.0 | 4.9 | 5.0 | - | 0 | | 5.2 | - | 0 | 3.3 | 6.0 | - | - | 6.0 | | 1.2 | 0 | 4.9 | 6.0 | 5.0 |
| STOP | 6.0 | 4.9 | 5.0 | - | 0 | | 5.2 | - | 0 | 3.3 | 6.0 | - | - | 6.0 | | 1.2 | 0 | 4.9 | 6.0 | 5.0 |
| Ref No. | IC1507 | | | | | | | | | IC1508 | | | | | | IC1509 | | | | |
| MODE | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | 1 | 2 | 3 | 4 | 5 | | 1 | 2 | 3 | 4 | 5 |
| REC | 5.0 | - | 0 | 3.1 | 4.9 | - | - | 6.0 | | 6.0 | 4.9 | 3.3 | - | 0 | | 1.8 | 3.3 | 1.2 | 1.0 | 0 |
| PLAY | 5.0 | - | 0 | 3.1 | 4.9 | - | - | 6.0 | | 6.0 | 4.9 | 3.3 | - | 0 | | 1.8 | 3.3 | 1.2 | 1.0 | 0 |
| STOP | 5.0 | - | 0 | 3.1 | 4.9 | - | - | 6.0 | | 6.0 | 4.9 | 3.3 | - | 0 | | 1.8 | 3.3 | 1.2 | 1.0 | 0 |
| Ref No. | IC1510 | | | | | | | | | | | | | | | | | | | |
| MODE | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | | | | | | | | | |
| REC | 1.5 | 0.8 | 3.3 | 3.3 | 0 | 0 | 1.8 | 1.8 | | | | | | | | | | | | |
| PLAY | 1.5 | 0.8 | 3.3 | 3.3 | 0 | 0 | 1.8 | 1.8 | | | | | | | | | | | | |
| STOP | 1.5 | 0.8 | 3.3 | 3.3 | 0 | 0 | 1.8 | 1.8 | | | | | | | | | | | | |
| Ref No. | IC3001 | | | | | | | | | | | | | | | | | | | |
| MODE | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| REC | 1.3 | 0 | 2.1 | 4.9 | 1.3 | 4.8 | 1.4 | 4.6 | 0.1 | 2.6 | 0 | 1.3 | 4.8 | 1.3 | 0 | 0.1 | 2.6 | 0 | 1.7 | 4.8 |
| PLAY | 1.4 | 0 | 2.1 | 4.9 | 1.4 | 4.8 | 1.4 | 4.6 | 0.1 | 2.6 | 0 | 1.4 | 4.8 | 1.4 | 0 | 0.1 | 2.6 | 0 | 1.8 | 4.8 |
| STOP | 1.3 | 0 | 2.1 | 4.9 | 1.3 | 4.8 | 1.3 | 4.6 | 0.1 | 2.6 | 0 | 1.3 | 4.8 | 1.3 | 0 | 0.1 | 2.6 | 0 | 1.8 | 4.8 |
| Ref No. | IC3001 | | | | | | | | | | | | | | | | | | | |
| MODE | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |
| REC | 1.3 | 0 | 0.1 | 2.6 | 4.9 | 1.6 | 1.6 | 1.8 | 1.8 | 2.1 | 0 | 2.1 | 2.1 | 2.1 | 2.1 | 1.6 | 1.5 | 0 | 1.8 | 4.9 |
| PLAY | 1.4 | 0 | 0.1 | 2.6 | 4.9 | 1.6 | 1.6 | 1.8 | 1.8 | 2.1 | 0 | 2.1 | 2.1 | 2.1 | 2.1 | 1.6 | 1.5 | 0 | 1.8 | 4.9 |
| STOP | 1.3 | 0 | 0.1 | 2.6 | 4.9 | 1.6 | 1.6 | 1.8 | 1.8 | 2.1 | 0 | 2.1 | 2.1 | 2.1 | 2.1 | 1.6 | 1.5 | 0 | 1.8 | 4.9 |

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ref No. | IC3001 | | | | | | | | | | | | | | | | | | | |
| MODE | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 |
| REC | 2.7 | 0 | 2.7 | 4.9 | 2.7 | 2.7 | 1.7 | 4.6 | 2.7 | 0 | 2.7 | 4.9 | 2.7 | 2.9 | 1.0 | 0 | 4.9 | 4.9 | 4.9 | 0.1 |
| PLAY | 2.7 | 0 | 2.7 | 4.9 | 2.7 | 2.7 | 1.8 | 4.6 | 2.7 | 0 | 2.7 | 4.9 | 2.7 | 2.9 | 1.0 | 0 | 4.9 | 4.9 | 4.9 | 0.1 |
| STOP | 2.7 | 0 | 2.7 | 4.9 | 2.7 | 2.7 | 1.7 | 4.6 | 2.7 | 0 | 2.7 | 4.9 | 2.7 | 3.0 | 1.0 | 0 | 4.9 | 4.9 | 4.9 | 0.1 |
| Ref No. | IC3001 | | | | | | | | | | | | | | | | | | | |
| MODE | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 |
| REC | 0 | 0.8 | 0.8 | 4.9 | 1.2 | 0 | 1.6 | 0 | 2.0 | 0 | - | 4.9 | - | 0 | - | 0 | 0 | 4.9 | 0 | 0 |
| PLAY | 0 | 1.6 | 0.8 | 4.9 | 1.6 | 0 | 1.6 | 0 | 2.0 | 0 | - | 4.9 | - | 0 | - | 0 | 0 | 4.9 | 0 | 0 |
| STOP | 0 | 0.8 | 0.8 | 4.9 | 1.2 | 0 | 1.6 | 0 | 2.0 | 0 | - | 4.9 | - | 0 | - | 0 | 0 | 4.9 | 0 | 0 |
| Ref No. | IC4001 | | | | | | | | | | | | | | | | | | | |
| MODE | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| REC | - | 4.4 | 4.4 | - | - | 4.4 | 4.4 | 3.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 0 | 4.4 | 0 | 4.4 | 0 | 4.9 |
| PLAY | - | 4.4 | 4.4 | - | - | 4.4 | 4.4 | 3.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 0 | 4.4 | 0 | 4.4 | 0 | 4.9 |
| STOP | - | 4.4 | 4.4 | - | - | 4.5 | 4.5 | 3.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 0 | 4.5 | 0 | 4.4 | 0 | 4.9 |
| Ref No. | IC4001 | | | | | | | | | | | | | | | | | | | |
| MODE | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | | | | | | | | |
| REC | 4.9 | 0 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 8.9 | 4.4 | 4.4 | | | | | | | | |
| PLAY | 4.9 | 0 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 8.9 | 4.4 | 4.4 | | | | | | | | |
| STOP | 4.9 | 0 | 4.5 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.5 | 8.9 | 4.4 | 4.4 | | | | | | | | |
| Ref No. | IC4004 | | | | | | IC4005 | | | | | | IC7404 | | | | | | | |
| MODE | 1 | 2 | 3 | 4 | 5 | | 1 | 2 | 3 | 4 | 5 | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| REC | 4.9 | 0 | 1.2 | 4.9 | 6.0 | | 4.9 | 0 | 1.2 | 8.9 | 13.1 | | 0 | 2.5 | 1.9 | 0 | 2.8 | 2.5 | 3.3 | 5.0 |
| PLAY | 4.9 | 0 | 1.2 | 4.9 | 6.0 | | 4.9 | 0 | 1.2 | 8.9 | 13.4 | | 0 | 2.5 | 1.9 | 0 | 2.8 | 2.5 | 3.3 | 5.0 |
| STOP | 4.9 | 0 | 1.2 | 4.9 | 6.0 | | 4.9 | 0 | 1.2 | 8.9 | 13.4 | | 0 | 2.5 | 1.9 | 0 | 2.8 | 2.5 | 3.3 | 5.0 |
| Ref No. | IC7501 | | | | | | | | | | | | | | | | | | | |
| MODE | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| REC | 4.9 | 4.9 | 0 | 4.1 | 3.9 | 4.4 | 0 | 0 | 0.4 | 0.5 | 4.8 | 1.6 | 0 | 2.1 | 4.9 | 4.9 | 5.0 | 0 | 0.3 | 4.9 |
| PLAY | 4.9 | 4.9 | 0 | 3.9 | 3.9 | 4.4 | 0 | 0 | 0.4 | 0.5 | 4.8 | 1.6 | 0 | 2.1 | 4.9 | 4.9 | 5.0 | 0 | 0.3 | 4.9 |
| STOP | 5.0 | 4.9 | 0 | 3.9 | 3.9 | 4.4 | 0 | 0 | 0.4 | 0.6 | 4.8 | 1.6 | 0 | 2.1 | 5.0 | 5.0 | 5.0 | 0 | 0.3 | 4.9 |
| Ref No. | IC7501 | | | | | | | | | | | | | | | | | | | |
| MODE | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |
| REC | 0 | 0 | 1.8 | 0 | 0 | 0 | 5.0 | 0 | 0 | 0 | 1.8 | 1.7 | 0 | 4.9 | 2.5 | 0 | 0.3 | 4.9 | 5.0 | 5.0 |
| PLAY | 0 | 0 | 1.8 | 0 | 0 | 0 | 5.0 | 0 | 0 | 0 | 1.8 | 1.7 | 0 | 4.9 | 2.5 | 0 | 0.3 | 4.9 | 5.0 | 5.0 |
| STOP | 0 | 0 | 1.8 | 0 | 0 | 0 | 5.0 | 0 | 0 | 0 | 1.8 | 1.7 | 0 | 5.0 | 2.5 | 0 | 0.3 | 5.0 | 5.0 | 5.0 |
| Ref No. | IC7501 | | | | | | | | | | | | | | | | | | | |
| MODE | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 |
| REC | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5.0 | 0 | 0 | 4.9 | 0 | 0 | 4.9 | 4.9 |
| PLAY | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5.0 | 0 | 0 | 4.9 | 0 | 0 | 4.9 | 4.9 |
| STOP | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5.0 | 0 | 0 | 4.9 | 0 | 0 | 4.9 | 5.0 |
| Ref No. | IC7501 | | | | | | | | | | | | | | | | | | | |
| MODE | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 |
| REC | 0 | 0 | 0 | 2.5 | 5.0 | 0 | 0 | 0 | 4.9 | 5.0 | 0 | 0 | 0 | 0 | 4.8 | 5.0 | 0 | 0 | 4.9 | 4.9 |
| PLAY | 0 | 0 | 0 | 2.5 | 4.9 | 0 | 0 | 0 | 5.0 | 4.9 | 0 | 0 | 0 | 0 | 4.8 | 5.0 | 0 | 0 | 4.9 | 4.9 |
| STOP | 0 | 0 | 0 | 2.5 | 5.0 | 0 | 0 | 0 | 5.0 | 4.9 | 0 | 0 | 0 | 0 | 4.8 | 5.0 | 0 | 0 | 5.0 | 5.0 |
| Ref No. | IC7501 | | | | | | | | | | | | | | | | | | | |
| MODE | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |
| REC | 0 | 5.0 | 5.0 | 4.9 | 5.0 | 4.9 | 3.0 | 4.9 | 4.9 | 3.3 | 0 | 0 | 0 | 4.9 | 5.0 | 5.0 | 5.0 | 4.9 | 4.6 | 0 |
| PLAY | 0 | 5.0 | 5.0 | 4.9 | 5.0 | 4.9 | 3.0 | 4.9 | 4.9 | 3.3 | 0 | 0 | 0 | 4.9 | 5.0 | 5.0 | 5.0 | 4.9 | 4.6 | 0 |
| STOP | 0 | 5.0 | 5.0 | 5.0 | 5.0 | 4.9 | 3.0 | 4.9 | 4.9 | 3.3 | 0 | 0 | 0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 4.6 | 0 |
| Ref No. | IC7501 | | | | | | | | | | | | | | | | | | | |
| MODE | 101 | 102 | 103 | 104 | 105 | 106 | 107 | 108 | 109 | 110 | 111 | 112 | 113 | 114 | 115 | 116 | | | | |
| REC | 0 | 0 | 0 | 5.0 | 5.0 | 4.9 | 5.0 | 0 | 1.7 | 1.3 | 0 | 4.9 | 1.7 | 0 | 0 | 4.9 | | | | |
| PLAY | 0 | 0 | 0 | 5.0 | 5.0 | 4.9 | 5.0 | 0 | 1.7 | 1.3 | 0 | 4.9 | 1.7 | 0 | 0 | 4.9 | | | | |
| STOP | 0 | 0 | 0 | 5.0 | 5.0 | 5.0 | 5.0 | 0 | 1.8 | 1.3 | 0 | 5.0 | 1.8 | 0 | 0 | 5.0 | | | | |
| Ref No. | IC7502 | | | | | | | | | | | | | | | | | | | |
| MODE | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| REC | 4.9 | 3.0 | 4.4 | 3.9 | 0 | 2.2 | 2.2 | 5.0 | -28.0 | -28.0 | -28.0 | -28.0 | -28.0 | -24.4 | -24.4 | -20.8 | -28.0 | 5.0 | -28.0 | -28.0 |
| PLAY | 4.9 | 3.0 | 4.4 | 3.9 | 0 | 2.2 | 2.2 | 5.0 | -28.0 | -28.0 | -28.0 | -28.0 | -28.0 | -24.4 | -21.4 | -20.8 | -28.0 | 5.0 | -28.0 | -28.0 |
| STOP | 5.0 | 3.0 | 4.4 | 3.9 | 0 | 2.2 | 2.2 | 5.0 | -28.0 | -28.0 | -28.0 | -28.0 | -28.0 | -28.0 | -24.4 | -20.8 | -28.0 | 5.0 | -24.4 | -28.0 |
| Ref No. | IC7502 | | | | | | | | | | | | | | | | | | | |
| MODE | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |
| REC | -28.0 | -28.0 | -28.0 | -28.0 | -24.4 | -28.0 | -28.0 | -28.0 | -28.0 | -28.0 | -28.0 | -28.0 | -17.2 | -17.2 | -20.8 | -20.8 | -20.8 | -20.8 | -24.4 | -24.4 |
| PLAY | -24.4 | -28.0 | -28.0 | -24.4 | -24.4 | -28.0 | -28.0 | -28.0 | -28.0 | -28.0 | -28.0 | -28.0 | -17.2 | -17.2 | -24.4 | -20.8 | -24.4 | -24.4 | -20.8 | -20.8 |
| STOP | -28.0 | -28.0 | -28.0 | -24.4 | -20.7 | -28.0 | -28.0 | -28.0 | -28.0 | -28.0 | -28.0 | -28.0 | -20.8 | -20.8 | -24.4 | -20.8 | -28.0 | -20.8 | -24.4 | -17.1 |
| Ref No. | IC7502 | | | | | | | | | | | | | | | | | | | |
| MODE | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 |
| REC | -13.5 | -20.6 | -28.0 | -28.0 | -28.0 | -28.0 | -20.6 | -24.3 | -20.8 | -20.8 | -17.1 | -28.0 | -28.0 | -28.0 | -28.0 | -24.4 | -24.4 | -24.4 | -24.4 | -24.4 |
| PLAY | -17.1 | -20.6 | -28.0 | -28.0 | -28.0 | -24.4 | -20.6 | -24.4 | -17.2 | -13.4 | -16.8 | -28.0 | -28.0 | -28.0 | -28.0 | -24.4 | -23.9 | -23.7 | -23.4 | -23.3 |
| STOP | -20.7 | -17.1 | -28.0 | -28.0 | -28.0 | -28.0 | -20.6 | -24.4 | -20.8 | -17.2 | -17.1 | -28.0 | -28.0 | -28.0 | -28.0 | -24.4 | -24.4 | -24.4 | -24.4 | -24.4 |
| Ref No. | IC7502 | | | | | | | | | | | | | | | | | | | |
| MODE | 61 | 62 | 63 | 64 | | | | | | | | | | | | | | | | |
| REC | -24.4 | -24.4 | -24.4 | -28.4 | | | | | | | | | | | | | | | | |
| PLAY | -24.4 | -24.4 | -24.4 | -28.4 | | | | | | | | | | | | | | | | |
| STOP | -24.4 | -24.4 | -24.4 | -28.4 | | | | | | | | | | | | | | | | |
| Ref No. | IC7503 | | | | | | IC7505 | | | | | | IC7506 | | | | | | | |
| MODE | 1 | 2 | 3 | 4 | 5 | | 1 | 2 | 3 | 4 | 5 | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| REC | 4.9 | 5.2 | 0 | - | - | | 2.2 | 3.3 | 0 | - | - | | 5.8 | 1.8 | 1.8 | 0 | 1.8 | 1.8 | 1.8 | 13.1 |
| PLAY | 4.9 | 5.2 | 0 | - | - | | 2.2 | 3.3 | 0 | - | - | | 5.8 | 1.8 | 1.8 | 0 | 1.8 | 1.8 | 1.8 | 13.1 |
| STOP | 5.0 | 5.2 | 0 | - | - | | 2.2 | 3.3 | 0 | - | - | | 5.8 | 1.8 | 1.8 | 0 | 1.8 | 1.8 | 1.8 | 13.1 |

| Ref No. | Q4001 | | | | Q4002 | | | | Q4003 | | | | Q4004 | | | | Q4005 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MODE | E | C | B | | E | C | B | | E | C | B | | E | C | B | | E | C | B | |
| REC | 5.2 | -0.1 | 5.2 | | 0 | 0 | -0.1 | | 0 | 0 | -0.1 | | 0 | 0 | -0.1 | | 0 | 0 | -0.1 | |
| PLAY | 5.2 | -0.1 | 5.2 | | 0 | 0 | -0.1 | | 0 | 0 | -0.1 | | 0 | 0 | -0.1 | | 0 | 0 | -0.1 | |
| STOP | 5.2 | -0.1 | 5.2 | | 0 | 0 | -0.1 | | 0 | 0 | -0.1 | | 0 | 0 | -0.1 | | 0 | 0 | -0.1 | |
| Ref No. | Q7401 | | | | Q7503 | | | | Q7504 | | | | Q7507 | | | | Q7508 | | | |
| MODE | E | C | B | | E | C | B | | E | C | B | | 1 | 2 | 3 | | E | C | B | |
| REC | 2.7 | 0 | 2.0 | | 0 | 3.4 | -1.0 | | 0 | -1.0 | -1.0 | | 2.3 | 0 | 1.6 | | 1.7 | 5.0 | 1.6 | |
| PLAY | 2.7 | 0 | 2.1 | | 0 | 3.2 | -0.9 | | 0 | -0.9 | -1.0 | | 2.3 | 0 | 1.6 | | 1.8 | 5.0 | 1.6 | |
| STOP | 2.7 | 0 | 2.1 | | 0 | 3.1 | -1.0 | | 0 | -1.0 | -1.0 | | 2.3 | 0 | 1.6 | | 1.8 | 5.0 | 1.6 | |
| Ref No. | Q7512 | | | | Q7517 | | | | Q7520 | | | | | | | | | | | |
| MODE | 1 | 2 | 3 | | 1 | 2 | 3 | | E | C | B | | | | | | | | | |
| REC | 5.0 | 13.1 | 5.7 | | -19.8 | -19.8 | -19.1 | | 0 | 2.7 | 0 | | | | | | | | | |
| PLAY | 5.0 | 13.1 | 5.7 | | -19.8 | -19.8 | -19.1 | | 0 | 2.7 | 0 | | | | | | | | | |
| STOP | 5.0 | 13.1 | 5.7 | | -19.8 | -19.8 | -19.1 | | 0 | 2.7 | 0 | | | | | | | | | |
| Ref No. | QR4001 | | | | QR4002 | | | | QR4003 | | | | QR4004 | | | | QR7502 | | | |
| MODE | E | C | B | | E | C | B | | E | C | B | | E | C | B | | E | C | B | |
| REC | 0 | 0 | 4.9 | | 0 | 0 | 2.3 | | 0 | 5.2 | 0 | | 0 | 5.2 | 0 | | 0 | 0 | 2.2 | |
| PLAY | 0 | 0 | 4.9 | | 0 | 0 | 2.4 | | 0 | 5.2 | 0 | | 0 | 5.2 | 0 | | 0 | 0 | 2.2 | |
| STOP | 0 | 0 | 4.9 | | 0 | 0 | 2.4 | | 0 | 5.2 | 0 | | 0 | 5.2 | 0 | | 0 | 0 | 2.2 | |
| Ref No. | QR7507 | | | | | | | | | | | | | | | | | | | |
| MODE | E | C | B | | | | | | | | | | | | | | | | | |
| REC | 4.9 | 4.9 | 0 | | | | | | | | | | | | | | | | | |
| PLAY | 4.9 | 4.9 | 0 | | | | | | | | | | | | | | | | | |
| STOP | 4.9 | 4.9 | 0 | | | | | | | | | | | | | | | | | |

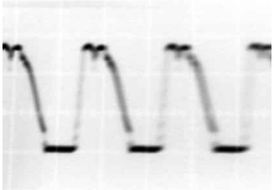
| Ref No. | P9001 | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MODE | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| REC | 2.0 | 1.2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3.3 | 0 | 0 | 0 | 0 | 3.3 | 0 | 4.9 | 1.5 | 4.9 | 0 |
| PLAY | 2.0 | 1.2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3.3 | 0 | 0 | 0 | 0 | 3.3 | 0 | 4.9 | 1.1 | 4.9 | 0 |
| STOP | 2.0 | 1.2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3.3 | 0 | 0 | 0 | 0 | 3.3 | 0 | 4.9 | 1.5 | 4.9 | 0 |

| Ref No. | P9001 | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MODE | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |
| REC | 4.9 | 1.1 | 3.3 | 0 | 0 | 1.0 | 5.0 | 0 | 4.9 | 1.0 | 0.1 | 0 | 4.9 | 1.0 | 5.0 | 0 | 5.0 | - | 4.9 | 0 |
| PLAY | 4.9 | 1.0 | 3.3 | 0 | 0 | 1.0 | 5.0 | 0 | 5.0 | 1.0 | 0.1 | 0 | 5.0 | 1.0 | 5.0 | 0 | 5.0 | - | 5.0 | 0 |
| STOP | 4.9 | 1.1 | 3.3 | 0 | 0 | 1.0 | 5.0 | 0 | 5.0 | 1.0 | 0.1 | 0 | 5.0 | 1.0 | 5.0 | 0 | 5.0 | - | 4.9 | 0 |

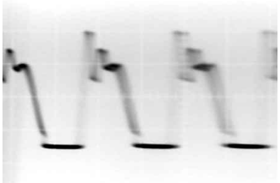
| Ref No. | P9001 | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MODE | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 |
| REC | - | 3.3 | 0 | 0 | 3.3 | 0 | 3.0 | 2.5 | 0 | 2.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.4 | 0 | 0 |
| PLAY | - | 3.3 | 0 | 0 | 3.3 | 0 | 3.0 | 2.5 | 0 | 2.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.4 | 0 | 0 |
| STOP | - | 3.3 | 0 | 0 | 3.3 | 0 | 3.0 | 2.5 | 0 | 2.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.4 | 0 | 0 |

| Ref No. | P9001 | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MODE | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 |
| REC | 0 | 2.5 | 0 | 0 | 4.9 | - | 0 | 4.9 | 5.0 | 2.3 | - | 1.6 | - | 3.3 | 3.3 | 3.3 | 0 | 1.5 | 5.0 | 1.5 |
| PLAY | 0 | 2.5 | 0 | 0 | 5.0 | - | 0 | 5.0 | 5.0 | 2.4 | - | 1.6 | - | 3.3 | 3.3 | 3.3 | 0 | 1.5 | 5.0 | 1.5 |
| STOP | 0 | 2.5 | 0 | 0 | 5.0 | - | 0 | 4.9 | 5.0 | 2.4 | - | 1.6 | - | 3.3 | 3.3 | 3.3 | 0 | 1.5 | 5.0 | 1.5 |

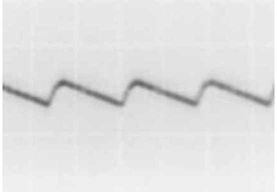
| Ref No. | P9001 | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MODE | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | | | | | | | | | | | | |
| REC | 6.0 | 1.2 | 5.0 | 1.5 | 6.0 | 1.2 | 6.0 | 1.2 | | | | | | | | | | | | |
| PLAY | 6.0 | 1.2 | 5.0 | 1.5 | 6.0 | 1.2 | 6.0 | 1.2 | | | | | | | | | | | | |
| STOP | 6.0 | 1.2 | 5.0 | 1.5 | 6.0 | 1.2 | 6.0 | 1.2 | | | | | | | | | | | | |



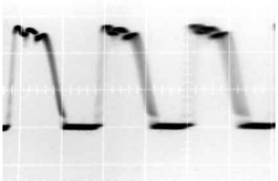
T1151-3 STOP
30Vp-p (5 μ sec.div)



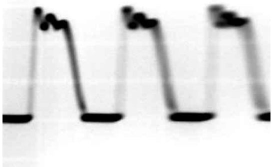
T1151-4 STOP
330Vp-p (5 μ sec.div)



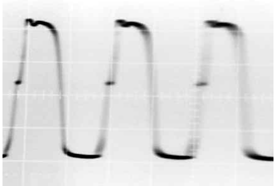
T1151-6 STOP
20Vp-p (5m sec.div)



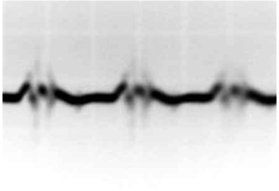
T1151-8 STOP
30Vp-p (5 μ sec.div)



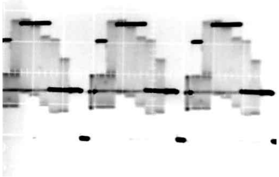
T1151-10 STOP
15Vp-p (5 μ sec.div)



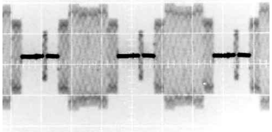
IC1150-1 STOP
8.0Vp-p (5 μ sec.div)



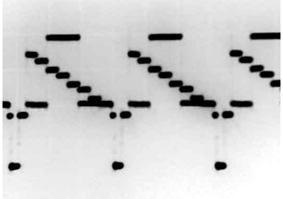
IC1150-2 STOP
0.5Vp-p (5 μ sec.div)



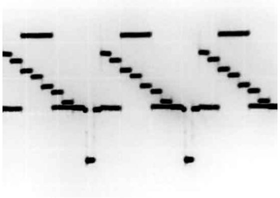
P7402-2 REC/PLAY
0.8Vp-p (20 μ sec.div)



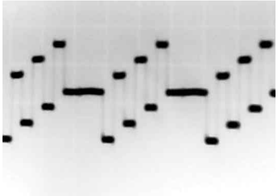
P7402-18 REC/PLAY
0.7Vp-p (20 μ sec.div)



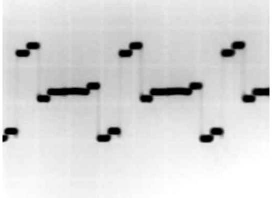
P7402-22 REC/PLAY
0.8Vp-p (20 μ sec.div)



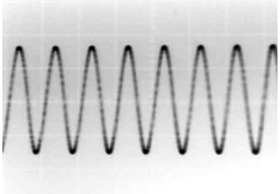
P7402-26 REC/PLAY
0.8Vp-p (20 μ sec.div)



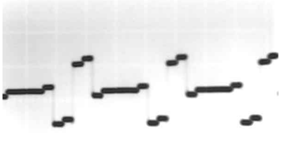
P7402-30 REC/PLAY
0.6Vp-p (20 μ sec.div)



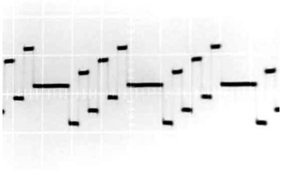
P7402-34 REC/PLAY
0.6Vp-p (20 μ sec.div)



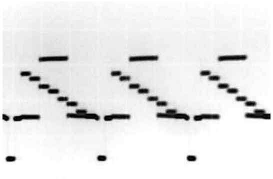
P7402-48,50 REC/PLAY
0.8Vp-p (1m sec.div)



JK3903-18 REC/PLAY
1.2Vp-p (20 μ sec.div)



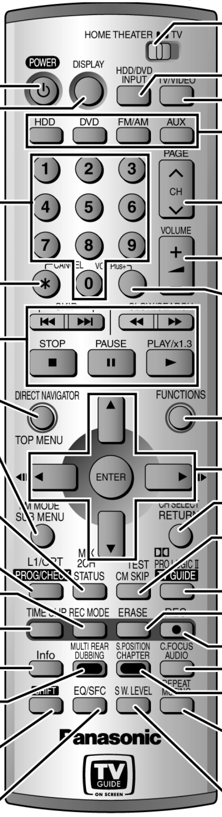
JK3903-19 REC/PLAY
1.2Vp-p (20 μ sec.div)



JK3903-20 REC/PLAY
1.5Vp-p (20 μ sec.div)

## Remote control

If **SHIFT** appears the function will not work unless you use in combination with the [SHIFT] button. Make sure you first press and hold the [SHIFT] button.


HOME THEATER
TV
POWER
DISPLAY
HDD/DVD INPUT
TV/VIDEO
HDD
DVD
FM/AM
AUX
PAGE
CH
VOLUME
1
2
3
4
5
6
7
8
9
0
CANCEL
VCR Plus+
STOP
PAUSE
PLAY/x1.3
DIRECT NAVIGATOR
FUNCTIONS
TOP MENU
ENTER
SUB MENU
RETURN
L1/OPT
2CH
TEST
PRO LOGIC II
PROG/CHECK
STATUS
CM SKIP
TV GUIDE
TIME SLIP
REC MODE
ERASE
REC
Info
MULTI REAR DUBBING
S.POSITION CHAPTER
C.FOCUS AUDIO
SHIFT
EQ/SFC
S.W.LEVEL
REPEAT MUTING
Panasonic
TV GUIDE ON SCREEN

Turn the unit on

Show on-screen menu

Select channels and title numbers etc./ Enter numbers

Cancel

Basic operations for recording and play

Show Top menu/Direct Navigator

Change radio reception mode **SHIFT** / Show sub menu

Down-mix signals to 2 channels **SHIFT** / Show status messages

Select analog/optical L1 input **SHIFT** / Show timer recording schedule

Change recording mode

Skip the specified time/Display the television image as a picture-in-picture

Changing the size of information window

Virtual rear/multi rear surround **SHIFT** / One touch transfer (dubbing)/“Blue” button for television program list

To use the functions labeled in orange, press the button while pressing this button.

Equalizer/Sound field control button

Switch to “HOME THEATER” when operating the main unit, or switch to “TV” when operating the television

Input select (L1, L2, L3 or television)

Select television input mode

Select the sources on the main unit

Channel select

Adjust the volume

Show VCR Plus+ screen

Show FUNCTIONS window

Selection/Enter, Frame-by-frame

Return to previous screen/Select speaker channels **SHIFT**

Skip a minute forward / Output test signals **SHIFT**

Dolby Pro Logic II **SHIFT** (➡ page 37)/Show TV program list

Erase items

Start recording

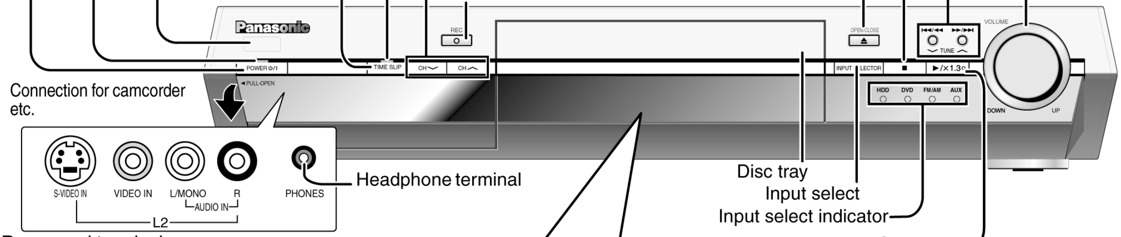
Center focus **SHIFT** /Select audio

Seat position **SHIFT** /Create chapters/“Green” button for television program list

Repeat items **SHIFT** / Muting (Volume is reduced to minimum. To cancel, press again or reduce the volume to minimum (— dB), then raise it to the required level. Muting is also canceled when you switch the unit to standby.)

Adjust the subwoofer level

## Main unit and display


Panasonic
REC
POWER ⏻/I
TIME SLIP
CH﹀
CH︿
OPEN/CLOSE
INPUT SELECTOR
■
►/x1.3
TUNE
VOLUME
DOWN
UP
HDD
DVD
FM/AM
AUX
PULL-OPEN
S-VIDEO IN
VIDEO IN
L/MONO
R
AUDIO IN
PHONES
L2

**POWER button (POWER ⏻/I)**
Press to switch the unit from on to standby mode or vice versa. In standby mode, the unit is still consuming a small amount of power.

**Standby/on indicator [⏻/I]**
When the unit is connected to the AC power supply, this indicator lights up in standby mode and goes out when the unit is turned on.

Remote control signal sensor

Skip the specified time/Display the television image as a picture-in-picture

Time Slip indicator

Channel select

Start recording

Connection for camcorder etc.

Headphone terminal

Rear panel terminals

Volume dial for recorder and tuner

Skip/Slow/Search, Tuning

Stop

Open/close disc tray

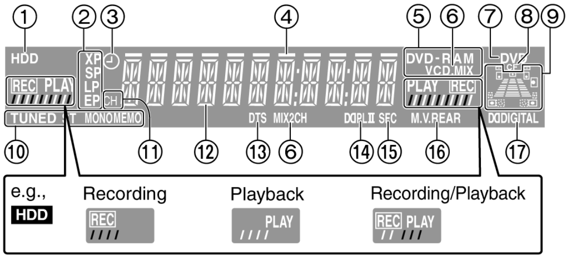
Disc tray

Input select

Input select indicator

Start play

### Display


①
②
③
④
⑤
⑥
⑦
⑧
⑨
HDD
XP
SP
LP
EP
CH
REC
PLAY
DVD-RAM
VCD MIX
DVD
PLAY
REC
TUNED
ST
MONO
MEMO
DTS
MIX2CH
DOLBY PL II
SFC
M.V.REAR
DOLBY DIGITAL
⑩
⑪
⑫
⑬
⑥
⑭
⑮
⑯
⑰
e.g.,
HDD
Recording
Playback
Recording/Playback
REC
PLAY
REC PLAY

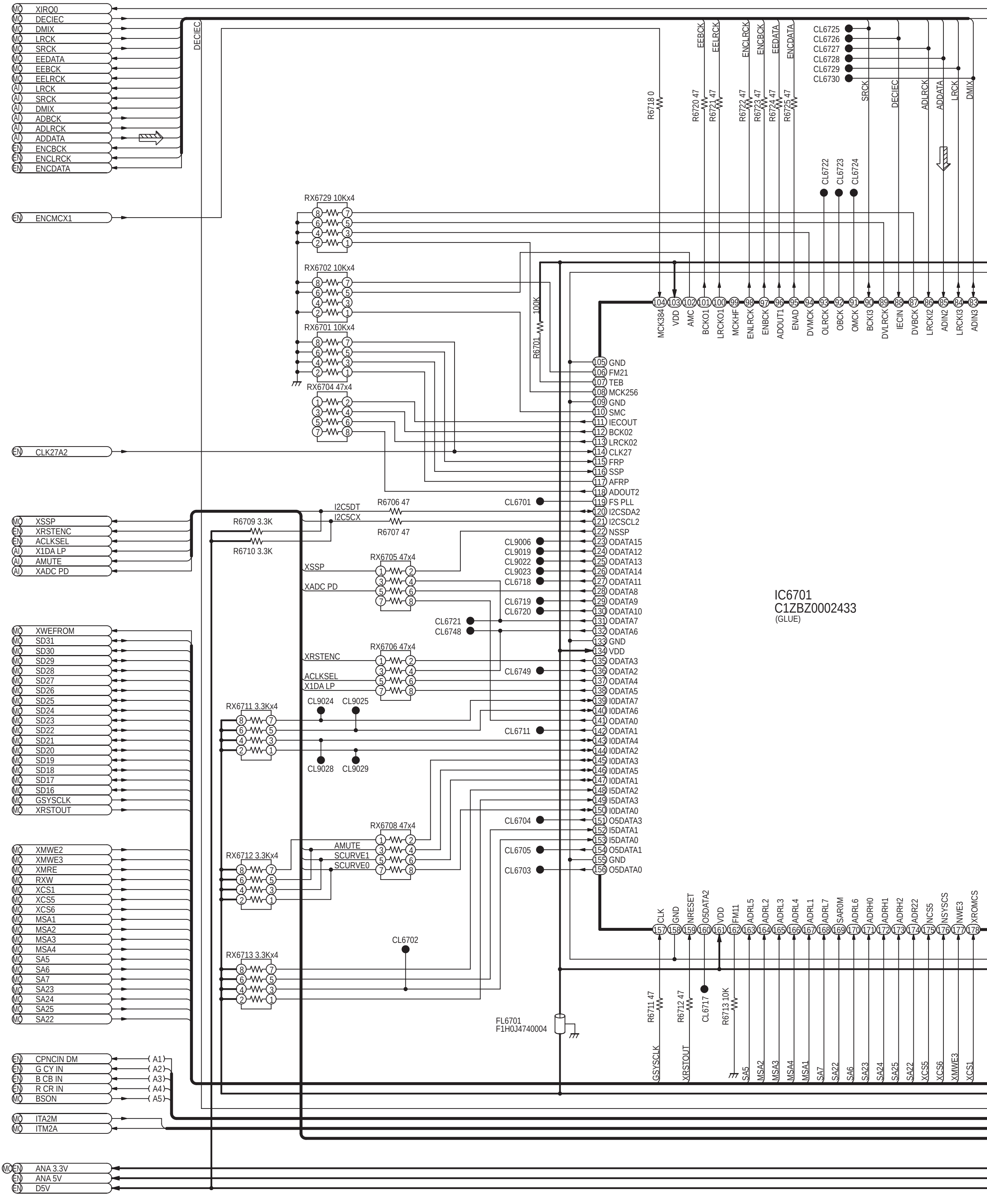
①HDD indicator
②Recording mode
③Timer recording indicator
④Transferring (dubbing) in progress indicator
⑤Disc type
⑥Down-mix indicator
⑦DVD indicator
⑧Center Focus Indicator
⑨Speaker channel, seat position display
⑩Radio broadcast display
TUNED: Receiving radio signal
ST: Stereo
MONO: Monaural
MEMO: Channel preset memory indicator
⑪Channel
⑫Main display section
⑬DTS indicator
⑭Dolby Pro Logic II indicator
⑮Equalizer/sound field control indicator
⑯Virtual rear/multi rear surround indicator
⑰Dolby Digital Indicator

# SCHEMATIC DIAGRAM - 1

—— : +B SIGNAL LINE ⇨ : MAIN SIGNAL LINE

(Side A) (Side B)

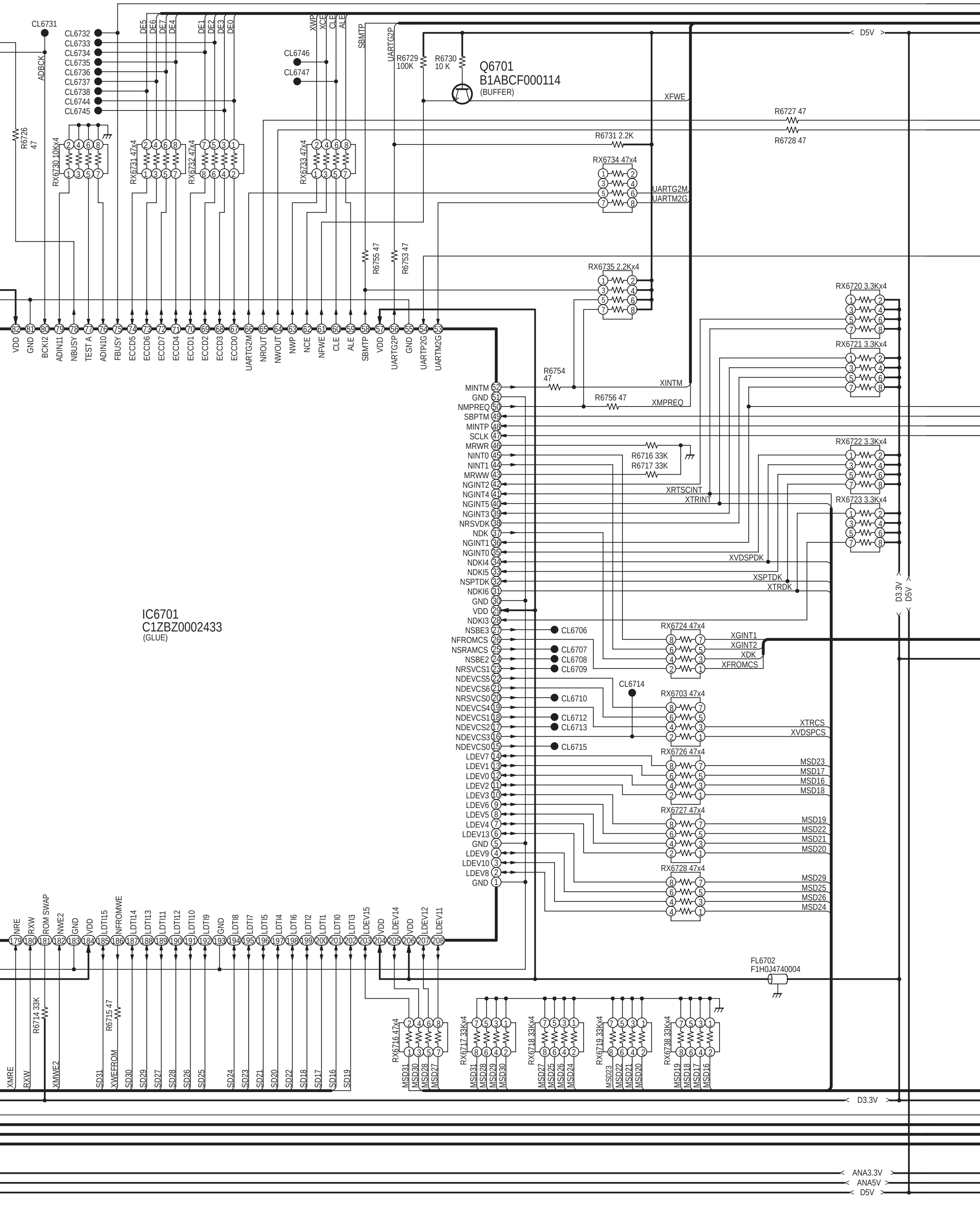
## A DIGITAL MODULE:GLUE NET (GN) CIRCUIT


MO XIRQ0
MO DECIEC
MO DMIX
MO LRCK
MO SRCK
MO EEDATA
MO EEBCK
MO EELRCK
AI LRCK
AI SRCK
AI DMIX
AI ADBCK
AI ADLRCK
AI ADDATA
EN ENCBCK
EN ENCLRCK
EN ENCDATA
EN ENCMCX1
EN CLK27A2
MO XSSP
EN XRSTENC
EN ACLKSEL
AI X1DA LP
AI AMUTE
AI XADC PD
MO XWEFROM
MO SD31
MO SD30
MO SD29
MO SD28
MO SD27
MO SD26
MO SD25
MO SD24
MO SD23
MO SD22
MO SD21
MO SD20
MO SD19
MO SD18
MO SD17
MO SD16
MO GSYSCLK
MO XRSTOUT
MO XMWE2
MO XMWE3
MO XMRE
MO RXW
MO XCS1
MO XCS5
MO XCS6
MO MSA1
MO MSA2
MO MSA3
MO MSA4
MO SA5
MO SA6
MO SA7
MO SA23
MO SA24
MO SA25
MO SA22
EN CPNCIN DM
EN G CY IN
EN B CB IN
EN R CR IN
MO BSON
A1
A2
A3
A4
A5
MO ITA2M
MO ITM2A
MO EN ANA 3.3V
EN ANA 5V
EN D5V
DECIEC
EEBCK
EELRCK
ENCLRCK
ENCBCK
EEDATA
ENCDATA
CL6725
CL6726
CL6727
CL6728
CL6729
CL6730
SRCK
DECIEC
ADLRCK
ADDATA
LRCK
DMIX
R6718 0
R6720 47
R6721 47
R6722 47
R6723 47
R6724 47
R6725 47
CL6722
CL6723
CL6724
RX6729 10Kx4
RX6702 10Kx4
RX6701 10Kx4
RX6704 47x4
100K
R6701
104 MCK384
103 VDD
102 AMC
101 BCKO1
100 LRCKO1
99 MCKHF
98 ENLRCK
97 ENBCK
96 ADOUT1
95 ENAD
94 DVMCK
93 OLRCK
92 OBCK
91 OMCK
90 BCKI3
89 DVLRCK
88 IECIN
87 DVBCK
86 LRCKI2
85 ADIN2
84 LRCKI3
83 ADIN3
105 GND
106 FM21
107 TEB
108 MCK256
109 GND
110 SMC
111 IECOUT
112 BCK02
113 LRCK02
114 CLK27
115 FRP
116 SSP
117 AFRP
118 ADOUT2
119 FS PLL
120 I2CSDA2
121 I2CSCL2
122 NSSP
123 ODATA15
124 ODATA12
125 ODATA13
126 ODATA14
127 ODATA11
128 ODATA8
129 ODATA9
130 ODATA10
131 ODATA7
132 ODATA6
133 GND
134 VDD
135 ODATA3
136 ODATA2
137 ODATA4
138 ODATA5
139 I0DATA7
140 I0DATA6
141 ODATA0
142 ODATA1
143 I0DATA4
144 I0DATA2
145 I0DATA3
146 I0DATA5
147 I0DATA1
148 I5DATA2
149 I5DATA3
150 I0DATA0
151 O5DATA3
152 I5DATA1
153 I5DATA0
154 O5DATA1
155 GND
156 O5DATA0
I2C5DT
I2C5CX
R6706 47
R6707 47
R6709 3.3K
R6710 3.3K
CL6701
CL9006
CL9019
CL9022
CL9023
CL6718
CL6719
CL6720
CL6721
CL6748
CL6749
CL6711
CL6704
CL6705
CL6703
XSSP
XADC PD
RX6705 47x4
RX6706 47x4
XRSTENC
ACLKSEL
X1DA LP
RX6711 3.3Kx4
CL9024
CL9025
CL9028
CL9029
RX6708 47x4
AMUTE
SCURVE1
SCURVE0
RX6712 3.3Kx4
RX6713 3.3Kx4
CL6702
IC6701
C1ZBZ0002433
(GLUE)
157 CLK
158 GND
159 NRESET
160 O5DATA2
161 VDD
162 FM11
163 ADRL5
164 ADRL2
165 ADRL3
166 ADRL4
167 ADRL1
168 ADRL7
169 SAR0M
170 ADRL6
171 ADRH0
172 ADRH1
173 ADRH2
174 ADR22
175 NCS5
176 NSYSCS
177 NWE3
178 XROMCS
R6711 47
R6712 47
CL6717
R6713 10K
FL6701
F1H0J4740004
GSYSCLK
XRSTOUT
SA5
MSA2
MSA3
MSA4
MSA1
SA7
SA22
SA6
SA23
SA24
SA25
SA22
XCS5
XCS6
XMWE3
XCS1

# SCHEMATIC DIAGRAM - 2

—— : +B SIGNAL LINE

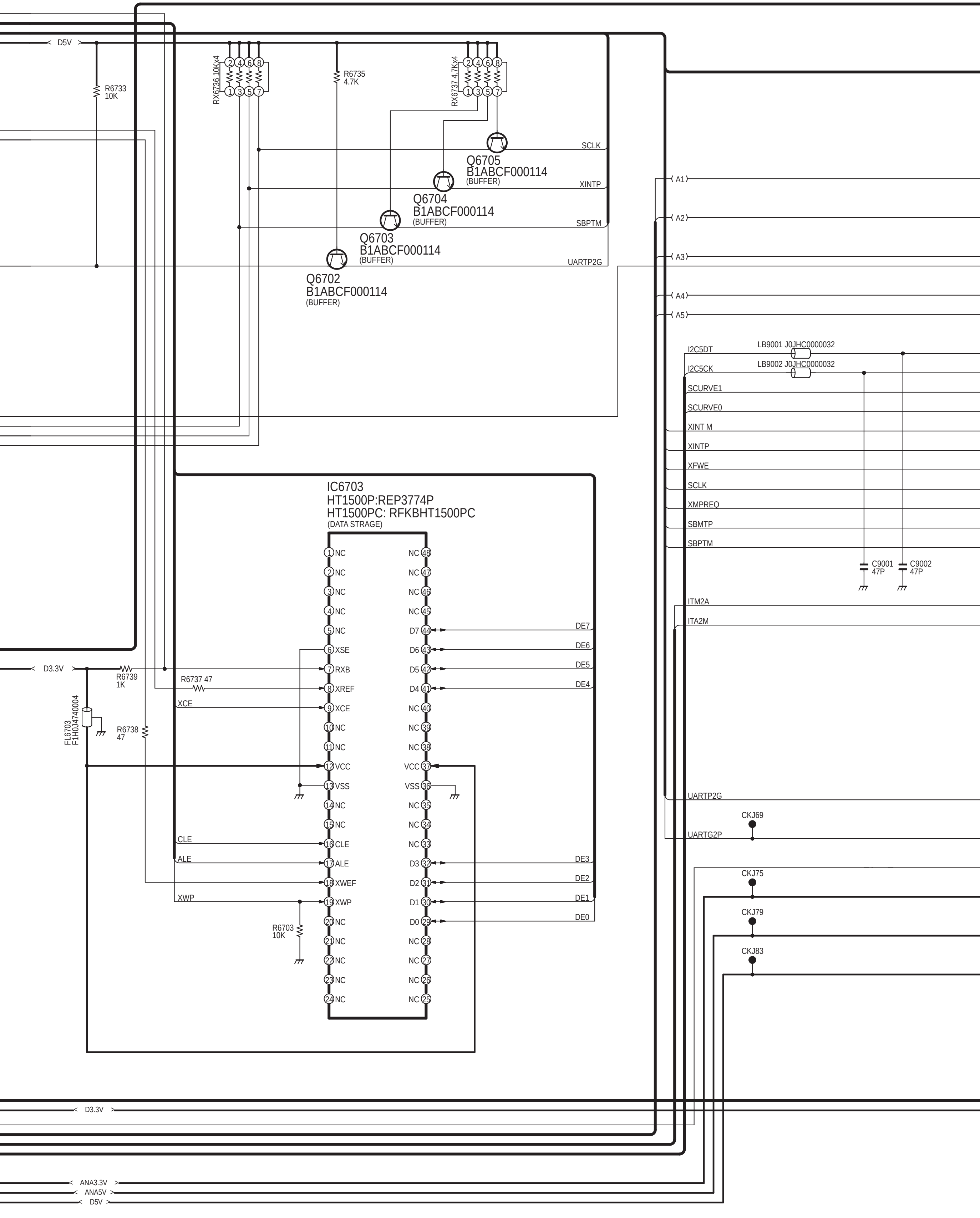
## A DIGITAL MODULE:GLUE NET (GN) CIRCUIT


CL6731
CL6732
CL6733
CL6734
CL6735
CL6736
CL6737
CL6738
CL6744
CL6745
ADBCK
R6726 47
RX6730 10Kx4
RX6731 47x4
RX6732 47x4
DE5
DE6
DE7
DE4
DE1
DE2
DE3
DE0
CL6746
CL6747
XWP
XCE
CLE
ALE
RX6733 47x4
SBMTP
UARTG2P
R6729 100K
R6730 10 K
Q6701
B1ABCF000114
(BUFFER)
D5V
XFWE
R6727 47
R6728 47
R6731 2.2K
RX6734 47x4
UARTG2M
UARTM2G
R6755 47
R6753 47
RX6735 2.2Kx4
RX6720 3.3Kx4
RX6721 3.3Kx4
VDD
GND
BCKI2
ADIN11
NBUSY
TEST A
ADIN10
FBUSY
ECCD5
ECCD6
ECCD7
ECCD4
ECCD1
ECCD2
ECCD3
ECCD0
UARTG2M
NROUT
NWOUT
NWP
NCE
NFWE
CLE
ALE
SBMTP
VDD
UARTG2P
GND
UARTP2G
UARTM2G
R6754 47
XINTM
R6756 47
XMPREQ
MINTM
GND
NMPREQ
SBPTM
MINTP
SCLK
MRWR
NINT0
NINT1
MRWW
NGINT2
NGINT4
NGINT5
NGINT3
NRSVDK
NDK
NGINT1
NGINT0
NDKI4
NDKI5
NSPTDK
NDKI6
GND
VDD
NDKI3
NSBE3
NFROMCS
NSRAMCS
NSBE2
NRSVCS1
NDEVCS5
NDEVCS6
NRSVCS0
NDEVCS4
NDEVCS1
NDEVCS2
NDEVCS3
NDEVCS0
LDEV7
LDEV1
LDEV0
LDEV2
LDEV3
LDEV6
LDEV5
LDEV4
LDEV13
GND
LDEV9
LDEV10
LDEV8
GND
R6716 33K
R6717 33K
XRTSCINT
XTRINT
RX6722 3.3Kx4
RX6723 3.3Kx4
XVDSPDK
XSPTDK
XTRDK
D3.3V
D5V
IC6701
C1ZBZ0002433
(GLUE)
CL6706
CL6707
CL6708
CL6709
RX6724 47x4
XGINT1
XGINT2
XDK
XFROMCS
CL6714
CL6710
CL6712
CL6713
CL6715
RX6703 47x4
XTRCS
XVDSPCS
RX6726 47x4
MSD23
MSD17
MSD16
MSD18
RX6727 47x4
MSD19
MSD22
MSD21
MSD20
RX6728 47x4
MSD29
MSD25
MSD26
MSD24
NRE
RXW
ROM SWAP
NWE2
GND
VDD
LDTI15
NFROMWE
LDTI14
LDTI13
LDTI11
LDTI12
LDTI10
LDTI9
GND
LDTI8
LDTI7
LDTI5
LDTI4
LDTI6
LDTI2
LDTI1
LDTI0
LDTI3
LDEV15
VDD
LDEV14
VDD
LDEV12
LDEV11
FL6702
F1H0J4740004
R6714 33K
R6715 47
RX6716 47x4
RX6717 33Kx4
RX6718 33Kx4
RX6719 33Kx4
RX6738 33Kx4
XMRE
RXW
XMWE2
SD31
XWEFROM
SD30
SD29
SD27
SD28
SD26
SD25
SD24
SD23
SD21
SD20
SD22
SD18
SD17
SD16
SD19
MSD31
MSD30
MSD29
MSD27
MSD31
MSD28
MSD29
MSD30
MSD27
MSD26
MSD25
MSD24
MSD23
MSD22
MSD21
MSD20
MSD19
MSD18
MSD17
MSD16
D3.3V
ANA3.3V
ANA5V
D5V

## SCHEMATIC DIAGRAM - 3

—— : +B SIGNAL LINE

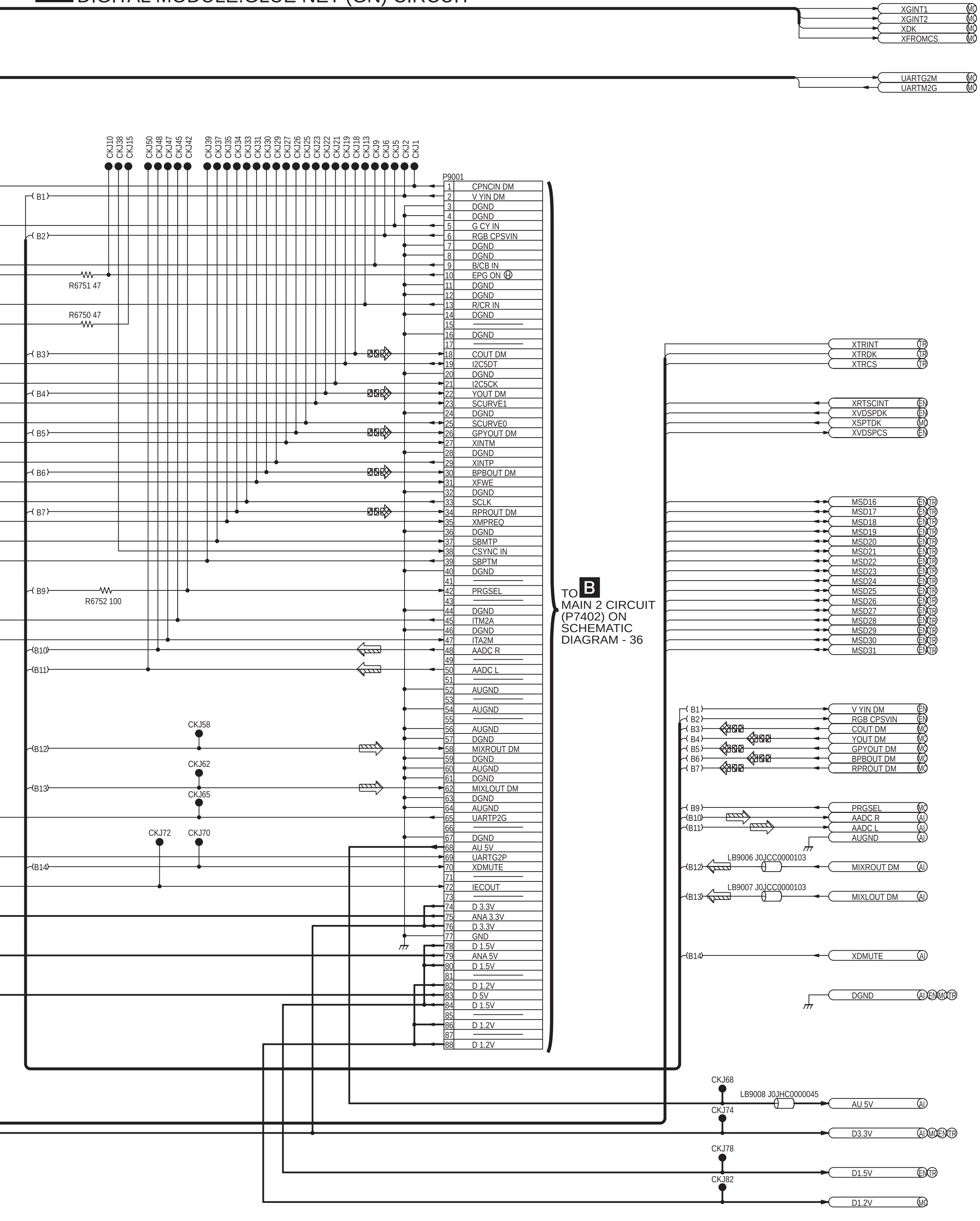
## A DIGITAL MODULE:GLUE NET (GN) CIRCUIT


D5V
R6733
10K
RX6736 10Kx4
2 4 6 8
1 3 5 7
R6735
4.7K
RX6737 4.7Kx4
2 4 6 8
1 3 5 7
SCLK
Q6705
B1ABCF000114
(BUFFER)
XINTP
Q6704
B1ABCF000114
(BUFFER)
SBPTM
Q6703
B1ABCF000114
(BUFFER)
UARTP2G
Q6702
B1ABCF000114
(BUFFER)
A1
A2
A3
A4
A5
I2C5DT
LB9001 J0JHC0000032
I2C5CK
LB9002 J0JHC0000032
SCURVE1
SCURVE0
XINT M
XINTP
XFWE
SCLK
XMPREQ
SBMTP
SBPTM
C9001
47P
C9002
47P
ITM2A
ITA2M
IC6703
HT1500P:REP3774P
HT1500PC: RFKBHT1500PC
(DATA STRAGE)
1 NC
2 NC
3 NC
4 NC
5 NC
6 XSE
7 RXB
8 XREF
9 XCE
10 NC
11 NC
12 VCC
13 VSS
14 NC
15 NC
16 CLE
17 ALE
18 XWEF
19 XWP
20 NC
21 NC
22 NC
23 NC
24 NC
NC 48
NC 47
NC 46
NC 45
D7 44
D6 43
D5 42
D4 41
NC 40
NC 39
NC 38
VCC 37
VSS 36
NC 35
NC 34
NC 33
D3 32
D2 31
D1 30
D0 29
NC 28
NC 27
NC 26
NC 25
DE7
DE6
DE5
DE4
DE3
DE2
DE1
DE0
D3.3V
R6739
1K
R6737 47
XCE
FL6703
F1H0J4740004
R6738
47
CLE
ALE
XWP
R6703
10K
UARTP2G
CKJ69
UARTG2P
CKJ75
CKJ79
CKJ83
D3.3V
ANA3.3V
ANA5V
D5V

# SCHEMATIC DIAGRAM - 4

— : +B SIGNAL LINE ⇨ : MAIN SIGNAL LINE ⇨ : DVD VIDEO SIGNAL LINE

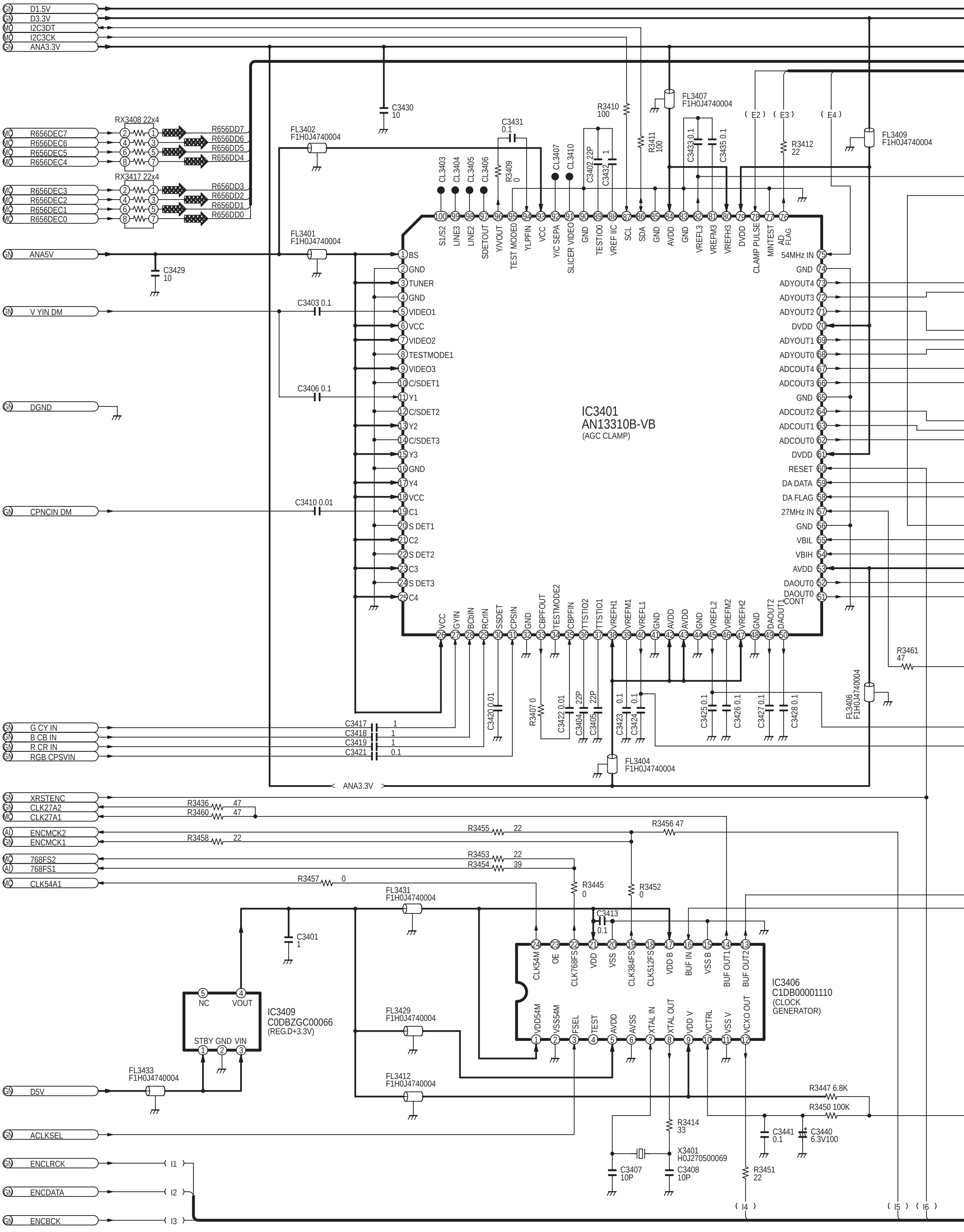
## A DIGITAL MODULE:GLUE NET (GN) CIRCUIT


XGINT1
XGINT2
XDK
XFROMCS
UARTG2M
UARTM2G
CKJ10 CKJ38 CKJ15
CKJ50 CKJ48 CKJ47 CKJ45 CKJ42
CKJ39 CKJ37 CKJ35 CKJ34 CKJ33 CKJ31 CKJ30 CKJ29 CKJ27 CKJ26 CKJ25 CKJ23 CKJ22 CKJ21 CKJ19 CKJ18 CKJ13 CKJ9 CKJ6 CKJ5 CKJ2 CKJ1
P9001
1 CPNCIN DM
2 V YIN DM
3 DGND
4 DGND
5 G CY IN
6 RGB CPSVIN
7 DGND
8 DGND
9 B/CB IN
10 EPG ON Ⓗ
11 DGND
12 DGND
13 R/CR IN
14 DGND
15
16 DGND
17
18 COUT DM
19 I2C5DT
20 DGND
21 I2C5CK
22 YOUT DM
23 SCURVE1
24 DGND
25 SCURVE0
26 GPYOUT DM
27 XINTM
28 DGND
29 XINTP
30 BPBOUT DM
31 XFWE
32 DGND
33 SCLK
34 RPROUT DM
35 XMPREQ
36 DGND
37 SBMTP
38 CSYNC IN
39 SBPTM
40 DGND
41
42 PRGSEL
43
44 DGND
45 ITM2A
46 DGND
47 ITA2M
48 AADC R
49
50 AADC L
51
52 AUGND
53
54 AUGND
55
56 AUGND
57 DGND
58 MIXROUT DM
59 DGND
60 AUGND
61 DGND
62 MIXLOUT DM
63 DGND
64 AUGND
65 UARTP2G
66
67 DGND
68 AU 5V
69 UARTG2P
70 XDMUTE
71
72 IECOUT
73
74 D 3.3V
75 ANA 3.3V
76 D 3.3V
77 GND
78 D 1.5V
79 ANA 5V
80 D 1.5V
81
82 D 1.2V
83 D 5V
84 D 1.5V
85
86 D 1.2V
87
88 D 1.2V
B1 B2 B3 B4 B5 B6 B7 B9 B10 B11 B12 B13 B14
R6751 47
R6750 47
R6752 100
CKJ58
CKJ62
CKJ65
CKJ72 CKJ70
TO B MAIN 2 CIRCUIT (P7402) ON SCHEMATIC DIAGRAM - 36
XTRINT TR
XTRDK TR
XTRCS TR
XRTSCINT EN
XVDSPDK EN
XSPTDK MC
XVDSPCS EN
MSD16 EN TR
MSD17 EN TR
MSD18 EN TR
MSD19 EN TR
MSD20 EN TR
MSD21 EN TR
MSD22 EN TR
MSD23 EN TR
MSD24 EN TR
MSD25 EN TR
MSD26 EN TR
MSD27 EN TR
MSD28 EN TR
MSD29 EN TR
MSD30 EN TR
MSD31 EN TR
V YIN DM EN
RGB CPSVIN EN
COUT DM MC
YOUT DM MC
GPYOUT DM MC
BPBOUT DM MC
RPROUT DM MC
PRGSEL MC
AADC R AI
AADC L AI
AUGND AI
LB9006 J0JCC0000103
MIXROUT DM AI
LB9007 J0JCC0000103
MIXLOUT DM AI
XDMUTE AI
DGND AI EN MC TR
CKJ68
LB9008 J0JHC0000045
AU 5V AI
CKJ74
D3.3V AI MC EN TR
CKJ78
D1.5V EN TR
CKJ82
D1.2V MC

# SCHEMATIC DIAGRAM - 5

—— : +B SIGNAL LINE ▨▶ : CD-DA SIGNAL LINE

## A DIGITAL MODULE:AV ENCODER (EN) CIRCUIT

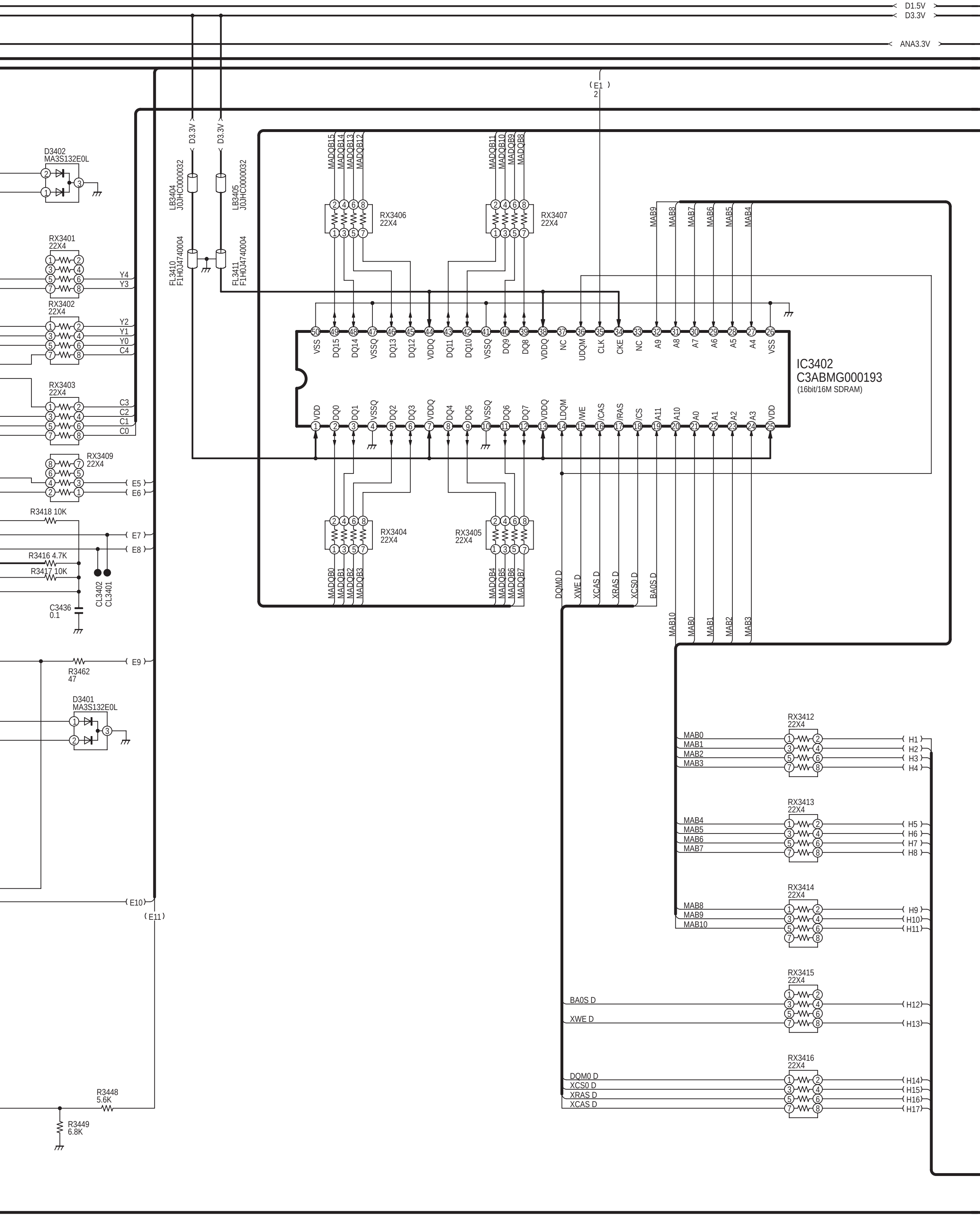


D1.5V
D3.3V
I2C3DT
I2C3CK
ANA3.3V
R656DEC7
R656DEC6
R656DEC5
R656DEC4
R656DEC3
R656DEC2
R656DEC1
R656DEC0
RX3408 22x4
RX3417 22x4
R656DD7
R656DD6
R656DD5
R656DD4
R656DD3
R656DD2
R656DD1
R656DD0
ANA5V
V YIN DM
DGND
CPNCIN DM
G CY IN
B CB IN
R CR IN
RGB CPSVIN
XRSTENC
CLK27A2
CLK27A1
ENCMCK2
ENCMCK1
768FS2
768FS1
CLK54A1
D5V
ACLKSEL
ENCLRCK
ENCDATA
ENCBCK
C3430 10
C3429 10
C3403 0.1
C3406 0.1
C3410 0.01
C3431 0.1
FL3402 F1H0J4740004
FL3401 F1H0J4740004
FL3407 F1H0J4740004
FL3409 F1H0J4740004
FL3406 F1H0J4740004
FL3404 F1H0J4740004
FL3431 F1H0J4740004
FL3429 F1H0J4740004
FL3412 F1H0J4740004
FL3433 F1H0J4740004
R3410 100
R3411 100
R3409 0
R3412 22
C3402 22P
C3432 1
C3433 0.1
C3435 0.1
CL3403
CL3404
CL3405
CL3406
CL3407
CL3410
(E2)
(E3)
(E4)
IC3401
AN13310B-VB
(AGC CLAMP)
1 BS
2 GND
3 TUNER
4 GND
5 VIDEO1
6 VCC
7 VIDEO2
8 TESTMODE1
9 VIDEO3
10 C/SDET1
11 Y1
12 C/SDET2
13 Y2
14 C/SDET3
15 Y3
16 GND
17 Y4
18 VCC
19 C1
20 S DET1
21 C2
22 S DET2
23 C3
24 S DET3
25 C4
26 VCC
27 GYIN
28 BCbIN
29 RCrIN
30 SSDET
31 CPSIN
32 GND
33 CBPFOUT
34 TESTMODE2
35 CBPFIN
36 TTSTIO2
37 TTSTIO1
38 VREFH1
39 VREFM1
40 VREFL1
41 GND
42 AVDD
43 AVDD
44 GND
45 VREFL2
46 VREFM2
47 VREFH2
48 GND
49 DAOUT2
50 DAOUT1
51 DAOUT0 CONT
52 DAOUT0
53 AVDD
54 VBIH
55 VBIL
56 GND
57 27MHz IN
58 DA FLAG
59 DA DATA
60 RESET
61 DVDD
62 ADCOUT0
63 ADCOUT1
64 ADCOUT2
65 GND
66 ADCOUT3
67 ADCOUT4
68 ADYOUT0
69 ADYOUT1
70 DVDD
71 ADYOUT2
72 ADYOUT3
73 ADYOUT4
74 GND
75 54MHz IN
76 AD FLAG
77 MINTEST
78 CLAMP PULSE
79 DVDD
80 VREFH3
81 VREFM3
82 VREFL3
83 GND
84 AVDD
85 GND
86 SDA
87 SCL
88 VREF IIC
89 TESTIO0
90 GND
91 SLICER VIDEO
92 Y/C SEPA
93 VCC
94 YLPFIN
95 TEST MODE0
96 Y/VOUT
97 SDETOUT
98 LINE2
99 LINE3
100 S1/S2
C3420 0.01
R3407 0
C3422 0.01
C3404 22P
C3405 22P
C3423 0.1
C3424 0.1
C3425 0.1
C3426 0.1
C3427 0.1
C3428 0.1
C3417 1
C3418 1
C3419 1
C3421 0.1
R3461 47
ANA3.3V
R3436 47
R3460 47
R3455 22
R3456 47
R3458 22
R3453 22
R3454 39
R3457 0
R3445 0
R3452 0
C3413 0.1
C3401 1
IC3409
C0DBZGC00066
(REG.D+3.3V)
5 NC
4 VOUT
STBY GND VIN
IC3406
C1DB00001110
(CLOCK GENERATOR)
24 CLK54M
23 OE
22 CLK768FS
21 VDD
20 VSS
19 CLK384FS
18 CLK512FS
17 VDD B
16 BUF IN
15 VSS B
14 BUF OUT1
13 BUF OUT2
1 VDD54M
2 VSS54M
3 FSEL
4 TEST
5 AVDD
6 AVSS
7 XTAL IN
8 XTAL OUT
9 VDD V
10 VCTRL
11 VSS V
12 VCXO OUT
R3447 6.8K
R3450 100K
R3414 33
C3441 0.1
C3440 6.3V100
X3401 H0J270500069
C3407 10P
C3408 10P
R3451 22
I1
I2
I3
(I4)
(I5)
(I6)

SCHEMATIC DIAGRAM - 6

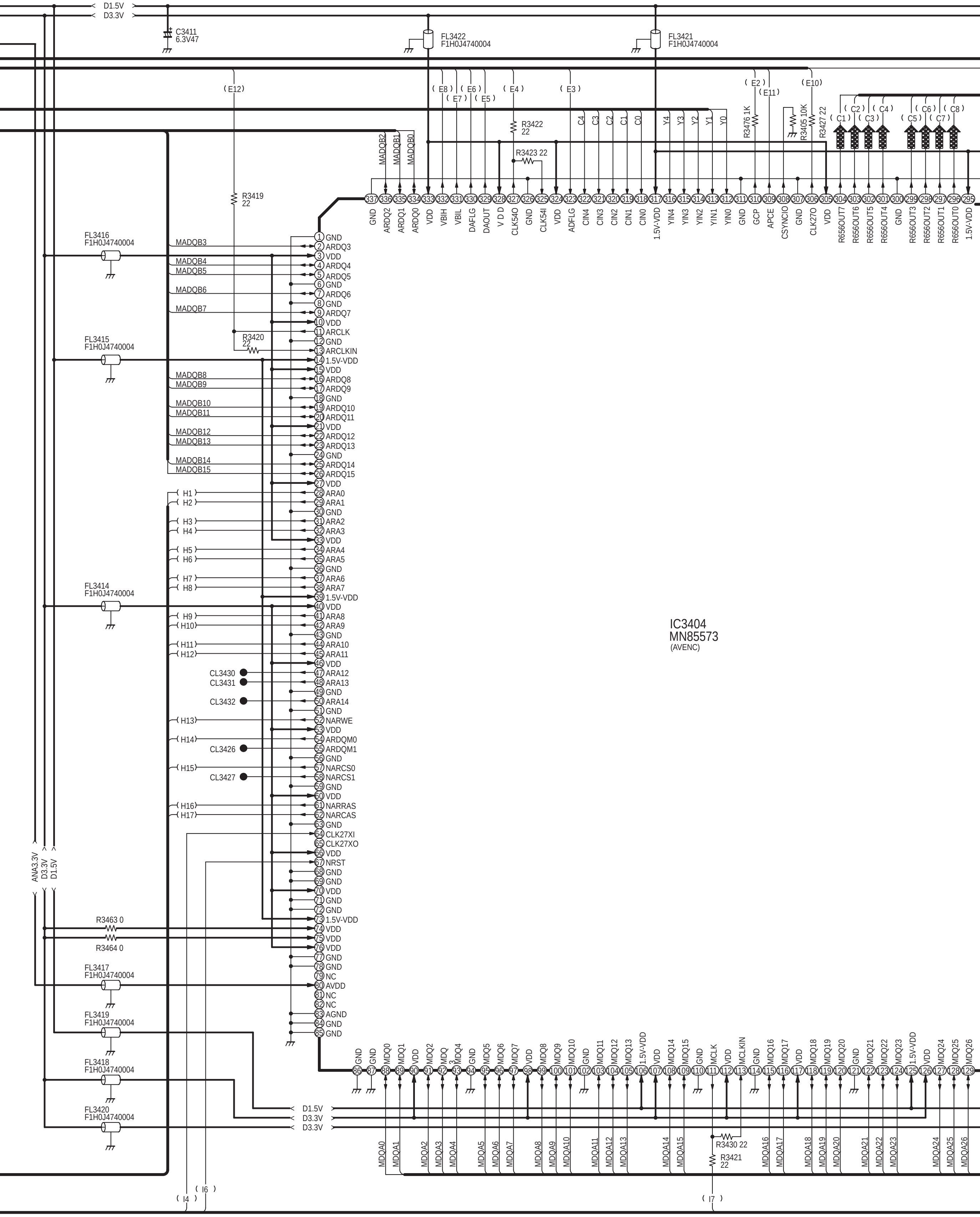
—— : +B SIGNAL LINE

## A DIGITAL MODULE:AV ENCODER (EN) CIRCUIT


D1.5V
D3.3V
ANA3.3V
E1
2
D3402
MA3S132E0L
LB3404
J0JHC0000032
LB3405
J0JHC0000032
FL3410
F1H0J4740004
FL3411
F1H0J4740004
RX3401
22X4
Y4
Y3
RX3402
22X4
Y2
Y1
Y0
C4
RX3403
22X4
C3
C2
C1
C0
RX3409
22X4
E5
E6
R3418 10K
E7
E8
R3416 4.7K
R3417 10K
CL3402
CL3401
C3436
0.1
E9
R3462
47
D3401
MA3S132E0L
E10
E11
R3448
5.6K
R3449
6.8K
MADQB15
MADQB14
MADQB13
MADQB12
RX3406
22X4
MADQB11
MADQB10
MADQB9
MADQB8
RX3407
22X4
MAB9
MAB8
MAB7
MAB6
MAB5
MAB4
VSS
DQ15
DQ14
VSSQ
DQ13
DQ12
VDDQ
DQ11
DQ10
VSSQ
DQ9
DQ8
VDDQ
NC
UDQM
CLK
CKE
NC
A9
A8
A7
A6
A5
A4
VSS
IC3402
C3ABMG000193
(16bit/16M SDRAM)
VDD
DQ0
DQ1
VSSQ
DQ2
DQ3
VDDQ
DQ4
DQ5
VSSQ
DQ6
DQ7
VDDQ
LDQM
/WE
/CAS
/RAS
/CS
A11
A10
A0
A1
A2
A3
VDD
RX3404
22X4
RX3405
22X4
MADQB0
MADQB1
MADQB2
MADQB3
MADQB4
MADQB5
MADQB6
MADQB7
DQM0 D
XWE D
XCAS D
XRAS D
XCS0 D
BA0S D
MAB10
MAB0
MAB1
MAB2
MAB3
RX3412
22X4
H1
H2
H3
H4
RX3413
22X4
MAB4
MAB5
MAB6
MAB7
H5
H6
H7
H8
RX3414
22X4
MAB8
MAB9
MAB10
H9
H10
H11
RX3415
22X4
BA0S D
XWE D
H12
H13
RX3416
22X4
DQM0 D
XCS0 D
XRAS D
XCAS D
H14
H15
H16
H17

: +B SIGNAL LINE ▶: CD-DA SIGNAL LINE

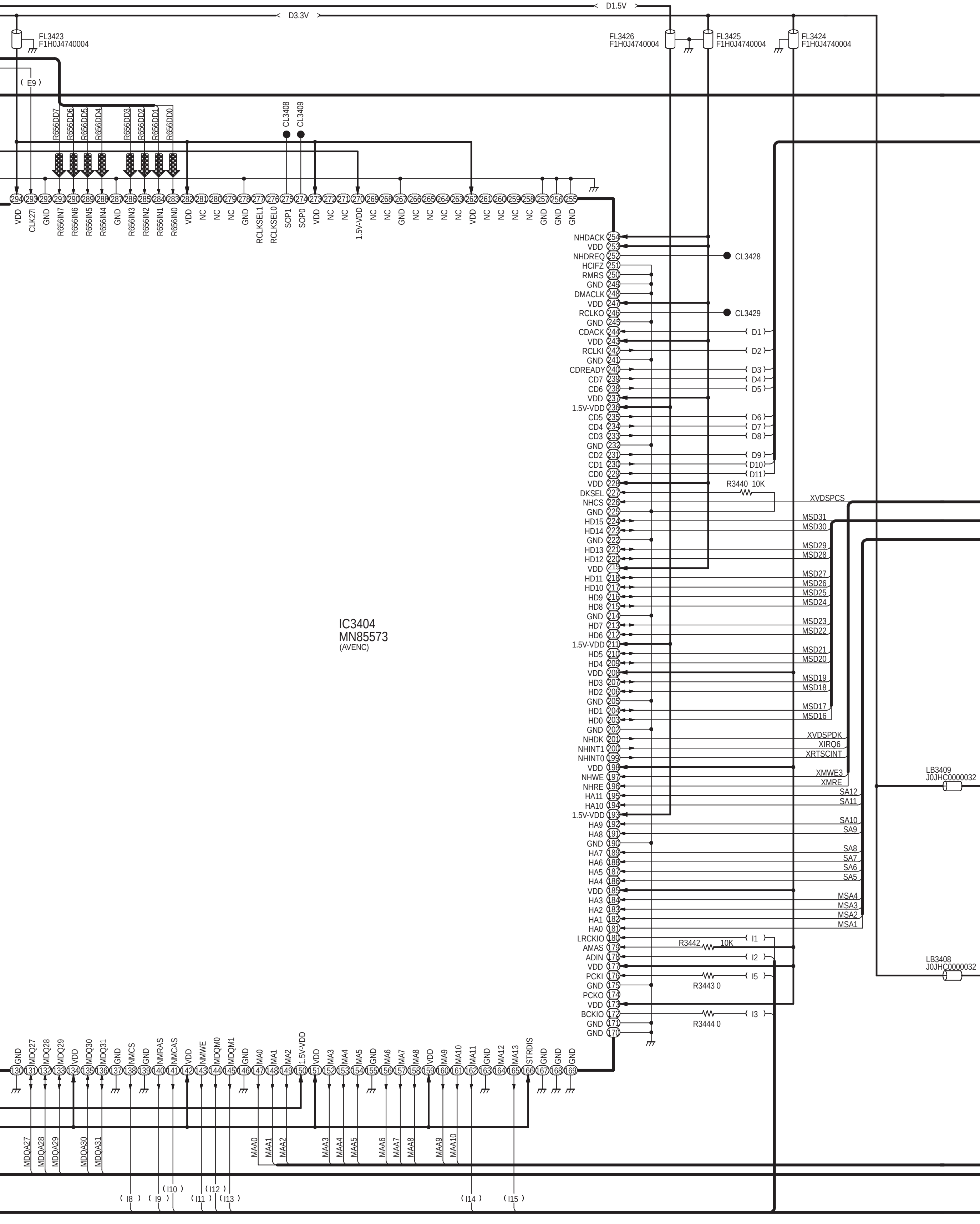
## A DIGITAL MODULE:AV ENCODER (EN) CIRCUIT


D1.5V
D3.3V
C3411
6.3V47
FL3422
F1H0J4740004
FL3421
F1H0J4740004
E12
E8
E7
E6
E5
E4
E3
E2
E11
E10
C2
C4
C6
C8
C1
C3
C5
C7
R3422
22
R3423 22
R3476 1K
R3405 10K
R3427 22
MADQB2
MADQB1
MADQB0
C4
C3
C2
C1
C0
Y4
Y3
Y2
Y1
Y0
R3419
22
R3420
22
FL3416
F1H0J4740004
FL3415
F1H0J4740004
FL3414
F1H0J4740004
MADQB3
MADQB4
MADQB5
MADQB6
MADQB7
MADQB8
MADQB9
MADQB10
MADQB11
MADQB12
MADQB13
MADQB14
MADQB15
337 GND
336 ARDQ2
335 ARDQ1
334 ARDQ0
333 VDD
332 VBIH
331 VBIL
330 DAFLG
329 DAOUT
328 VDD
327 CLK54O
326 GND
325 CLK54I
324 VDD
323 ADFLG
322 CIN4
321 CIN3
320 CIN2
319 CIN1
318 CIN0
317 1.5V-VDD
316 YIN4
315 YIN3
314 YIN2
313 YIN1
312 YIN0
311 GND
310 GCP
309 APCE
308 CSYNCIO
307 GND
306 CLK27O
305 VDD
304 R656OUT7
303 R656OUT6
302 R656OUT5
301 R656OUT4
300 GND
299 R656OUT3
298 R656OUT2
297 R656OUT1
296 R656OUT0
295 1.5V-VDD
1 GND
2 ARDQ3
3 VDD
4 ARDQ4
5 ARDQ5
6 GND
7 ARDQ6
8 GND
9 ARDQ7
10 VDD
11 ARCLK
12 GND
13 ARCLKIN
14 1.5V-VDD
15 VDD
16 ARDQ8
17 ARDQ9
18 GND
19 ARDQ10
20 ARDQ11
21 VDD
22 ARDQ12
23 ARDQ13
24 GND
25 ARDQ14
26 ARDQ15
27 VDD
28 ARA0
29 ARA1
30 GND
31 ARA2
32 ARA3
33 VDD
34 ARA4
35 ARA5
36 GND
37 ARA6
38 ARA7
39 1.5V-VDD
40 VDD
41 ARA8
42 ARA9
43 GND
44 ARA10
45 ARA11
46 VDD
47 ARA12
48 ARA13
49 GND
50 ARA14
51 GND
52 NARWE
53 VDD
54 ARDQM0
55 ARDQM1
56 GND
57 NARCS0
58 NARCS1
59 GND
60 VDD
61 NARRAS
62 NARCAS
63 GND
64 CLK27XI
65 CLK27XO
66 VDD
67 NRST
68 GND
69 GND
70 VDD
71 GND
72 GND
73 1.5V-VDD
74 VDD
75 VDD
76 VDD
77 GND
78 GND
79 NC
80 AVDD
81 NC
82 NC
83 AGND
84 GND
85 GND
H1
H2
H3
H4
H5
H6
H7
H8
H9
H10
H11
H12
H13
H14
H15
H16
H17
CL3430
CL3431
CL3432
CL3426
CL3427
IC3404
MN85573
(AVENC)
ANA3.3V
D3.3V
D1.5V
R3463 0
R3464 0
FL3417
F1H0J4740004
FL3419
F1H0J4740004
FL3418
F1H0J4740004
FL3420
F1H0J4740004
86 GND
87 GND
88 MDQ0
89 MDQ1
90 VDD
91 MDQ2
92 MDQ3
93 MDQ4
94 GND
95 MDQ5
96 MDQ6
97 MDQ7
98 VDD
99 MDQ8
100 MDQ9
101 MDQ10
102 GND
103 MDQ11
104 MDQ12
105 MDQ13
106 1.5V-VDD
107 VDD
108 MDQ14
109 MDQ15
110 GND
111 MCLK
112 VDD
113 MCLKIN
114 GND
115 MDQ16
116 MDQ17
117 VDD
118 MDQ18
119 MDQ19
120 MDQ20
121 GND
122 MDQ21
123 MDQ22
124 MDQ23
125 1.5V-VDD
126 VDD
127 MDQ24
128 MDQ25
129 MDQ26
D1.5V
D3.3V
D3.3V
MDQA0
MDQA1
MDQA2
MDQA3
MDQA4
MDQA5
MDQA6
MDQA7
MDQA8
MDQA9
MDQA10
MDQA11
MDQA12
MDQA13
MDQA14
MDQA15
R3430 22
R3421
22
MDQA16
MDQA17
MDQA18
MDQA19
MDQA20
MDQA21
MDQA22
MDQA23
MDQA24
MDQA25
MDQA26
I4
I6
I7

# SCHEMATIC DIAGRAM - 8

—— : +B SIGNAL LINE ➡ : CD-DA SIGNAL LINE

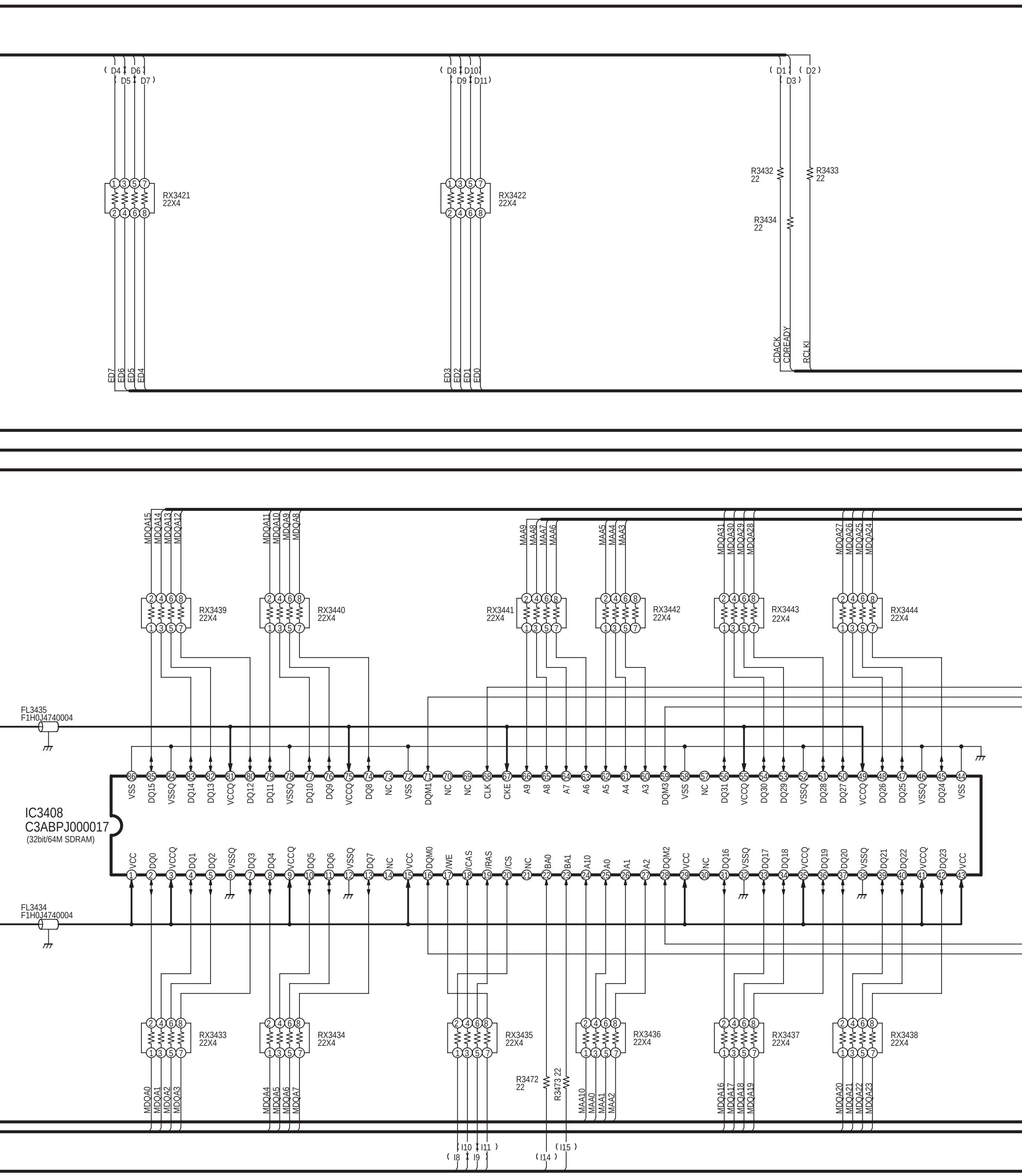
## A DIGITAL MODULE:AV ENCODER (EN) CIRCUIT


D1.5V
D3.3V
FL3423
F1H0J4740004
FL3426
F1H0J4740004
FL3425
F1H0J4740004
FL3424
F1H0J4740004
E9
R656DD7
R656DD6
R656DD5
R656DD4
R656DD3
R656DD2
R656DD1
R656DD0
CL3408
CL3409
VDD
CLK27I
GND
R656IN7
R656IN6
R656IN5
R656IN4
GND
R656IN3
R656IN2
R656IN1
R656IN0
VDD
NC
NC
NC
GND
RCLKSEL1
RCLKSEL0
SOP1
SOP0
VDD
NC
NC
1.5V-VDD
NC
NC
GND
NC
NC
NC
NC
VDD
NC
NC
NC
NC
GND
GND
GND
NHDACK
VDD
NHDREQ
CL3428
HCIFZ
RMRS
GND
DMACLK
VDD
RCLKO
CL3429
GND
CDACK
D1
VDD
RCLKI
D2
GND
CDREADY
D3
CD7
D4
CD6
D5
VDD
1.5V-VDD
CD5
D6
CD4
D7
CD3
D8
GND
CD2
D9
CD1
D10
CD0
D11
VDD
R3440 10K
DKSEL
XVDSPCS
NHCS
GND
HD15
MSD31
HD14
MSD30
GND
HD13
MSD29
HD12
MSD28
VDD
HD11
MSD27
HD10
MSD26
HD9
MSD25
HD8
MSD24
GND
HD7
MSD23
HD6
MSD22
1.5V-VDD
HD5
MSD21
HD4
MSD20
VDD
HD3
MSD19
HD2
MSD18
GND
HD1
MSD17
HD0
MSD16
GND
NHDK
XVDSPDK
NHINT1
XIRQ6
NHINT0
XRTSCINT
VDD
NHWE
XMWE3
NHRE
XMRE
HA11
SA12
HA10
SA11
1.5V-VDD
HA9
SA10
HA8
SA9
GND
HA7
SA8
HA6
SA7
HA5
SA6
HA4
SA5
VDD
HA3
MSA4
HA2
MSA3
HA1
MSA2
HA0
MSA1
LB3409
J0JHC0000032
LB3408
J0JHC0000032
LRCKIO
R3442
10K
I1
AMAS
ADIN
I2
VDD
PCKI
I5
R3443 0
GND
PCKO
VDD
BCKIO
I3
R3444 0
GND
GND
IC3404
MN85573
(AVENC)
GND
MDQ27
MDQ28
MDQ29
VDD
MDQ30
MDQ31
GND
NMCS
GND
NMRAS
NMCAS
VDD
NMWE
MDQM0
MDQM1
GND
MA0
MA1
MA2
1.5V-VDD
VDD
MA3
MA4
MA5
GND
MA6
MA7
MA8
VDD
MA9
MA10
MA11
GND
MA12
MA13
STRDIS
GND
GND
GND
MDQA27
MDQA28
MDQA29
MDQA30
MDQA31
MAA0
MAA1
MAA2
MAA3
MAA4
MAA5
MAA6
MAA7
MAA8
MAA9
MAA10
I8
I9
I10
I11
I12
I13
I14
I15

# SCHEMATIC DIAGRAM - 9

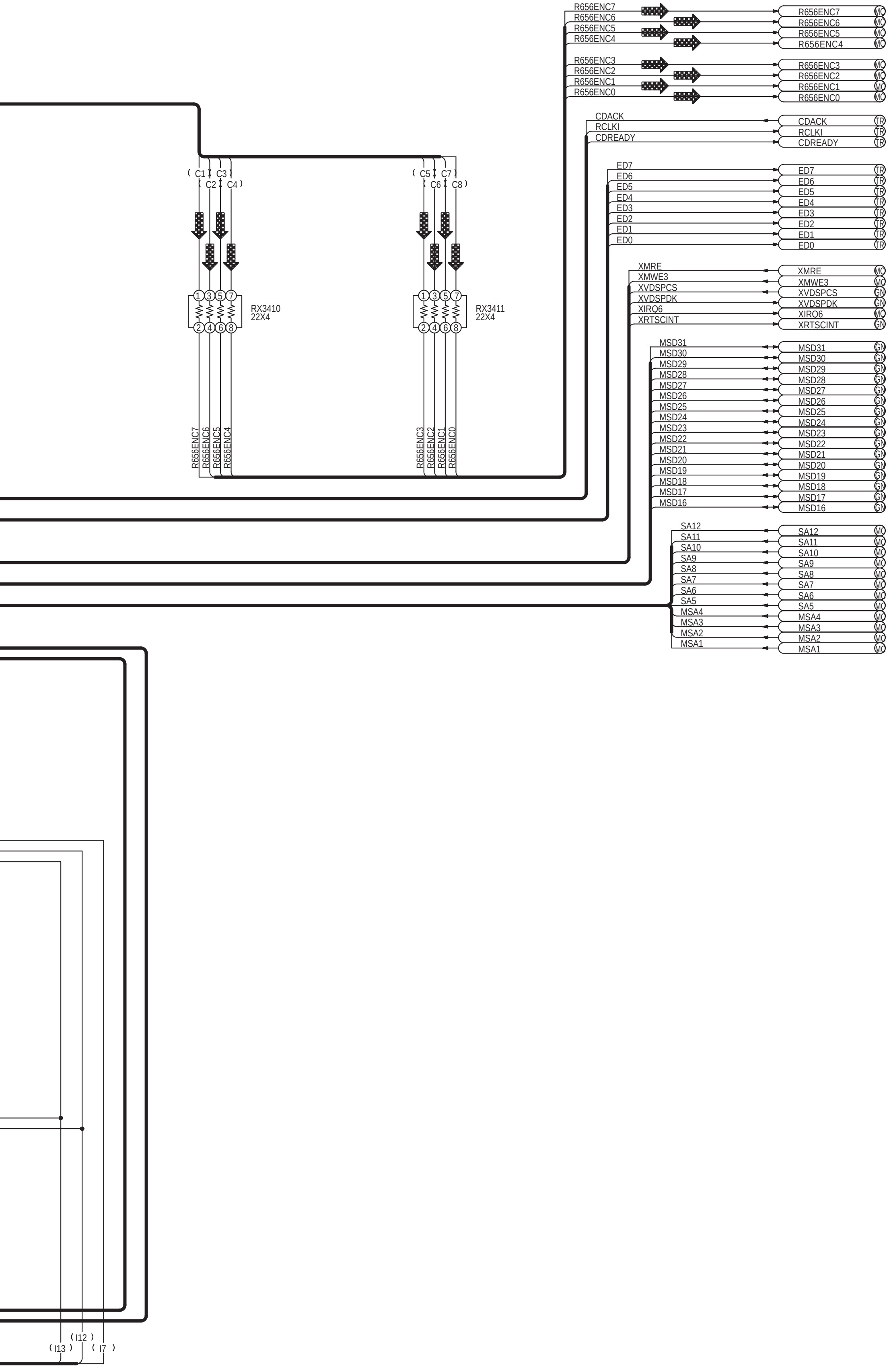
—— : +B SIGNAL LINE

## A DIGITAL MODULE:AV ENCODER (EN) CIRCUIT


D4
D5
D6
D7
RX3421
22X4
ED7
ED6
ED5
ED4
D8
D9
D10
D11
RX3422
22X4
ED3
ED2
ED1
ED0
D1
D2
D3
R3432
22
R3433
22
R3434
22
CDACK
CDREADY
RCLKI
MDQA15
MDQA14
MDQA13
MDQA12
RX3439
22X4
MDQA11
MDQA10
MDQA9
MDQA8
RX3440
22X4
MAA9
MAA8
MAA7
MAA6
RX3441
22X4
MAA5
MAA4
MAA3
RX3442
22X4
MDQA31
MDQA30
MDQA29
MDQA28
RX3443
22X4
MDQA27
MDQA26
MDQA25
MDQA24
RX3444
22X4
FL3435
F1H0J4740004
IC3408
C3ABPJ000017
(32bit/64M SDRAM)
VSS
DQ15
VSSQ
DQ14
DQ13
VCCQ
DQ12
DQ11
VSSQ
DQ10
DQ9
VCCQ
DQ8
NC
VSS
DQM1
NC
NC
CLK
CKE
A9
A8
A7
A6
A5
A4
A3
DQM3
VSS
NC
DQ31
VCCQ
DQ30
DQ29
VSSQ
DQ28
DQ27
VCCQ
DQ26
DQ25
VSSQ
DQ24
VSS
VCC
DQ0
VCCQ
DQ1
DQ2
VSSQ
DQ3
DQ4
VCCQ
DQ5
DQ6
VSSQ
DQ7
NC
VCC
DQM0
/WE
/CAS
/RAS
/CS
NC
BA0
BA1
A10
A0
A1
A2
DQM2
VCC
NC
DQ16
VSSQ
DQ17
DQ18
VCCQ
DQ19
DQ20
VSSQ
DQ21
DQ22
VCCQ
DQ23
VCC
FL3434
F1H0J4740004
RX3433
22X4
MDQA0
MDQA1
MDQA2
MDQA3
RX3434
22X4
MDQA4
MDQA5
MDQA6
MDQA7
RX3435
22X4
R3472
22
R3473 22
RX3436
22X4
MAA10
MAA0
MAA1
MAA2
RX3437
22X4
MDQA16
MDQA17
MDQA18
MDQA19
RX3438
22X4
MDQA20
MDQA21
MDQA22
MDQA23
I8
I9
I10
I11
I14
I15

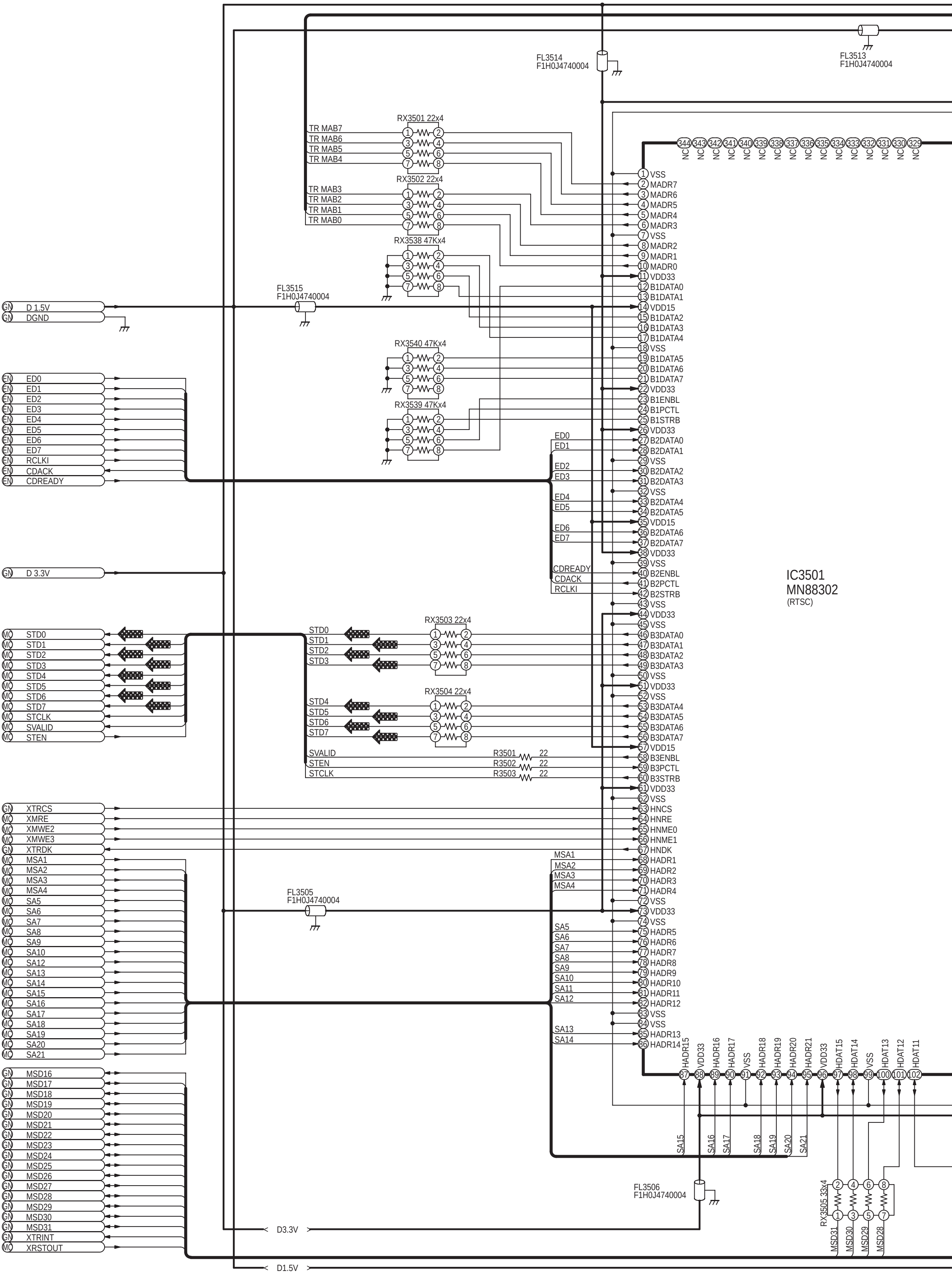
—— : +B SIGNAL LINE ▨➡ : CD-DA SIGNAL LINE

# A DIGITAL MODULE:AV ENCODER (EN) CIRCUIT


R656ENC7
R656ENC6
R656ENC5
R656ENC4
R656ENC3
R656ENC2
R656ENC1
R656ENC0
CDACK
RCLKI
CDREADY
ED7
ED6
ED5
ED4
ED3
ED2
ED1
ED0
XMRE
XMWE3
XVDSPCS
XVDSPDK
XIRQ6
XRTSCINT
MSD31
MSD30
MSD29
MSD28
MSD27
MSD26
MSD25
MSD24
MSD23
MSD22
MSD21
MSD20
MSD19
MSD18
MSD17
MSD16
SA12
SA11
SA10
SA9
SA8
SA7
SA6
SA5
MSA4
MSA3
MSA2
MSA1
MO
TR
GN
( C1 ) ( C3 )
( C2 ) ( C4 )
( C5 ) ( C7 )
( C6 ) ( C8 )
RX3410
22X4
RX3411
22X4
1 3 5 7
2 4 6 8
( I12 )
( I13 )
( I7 )

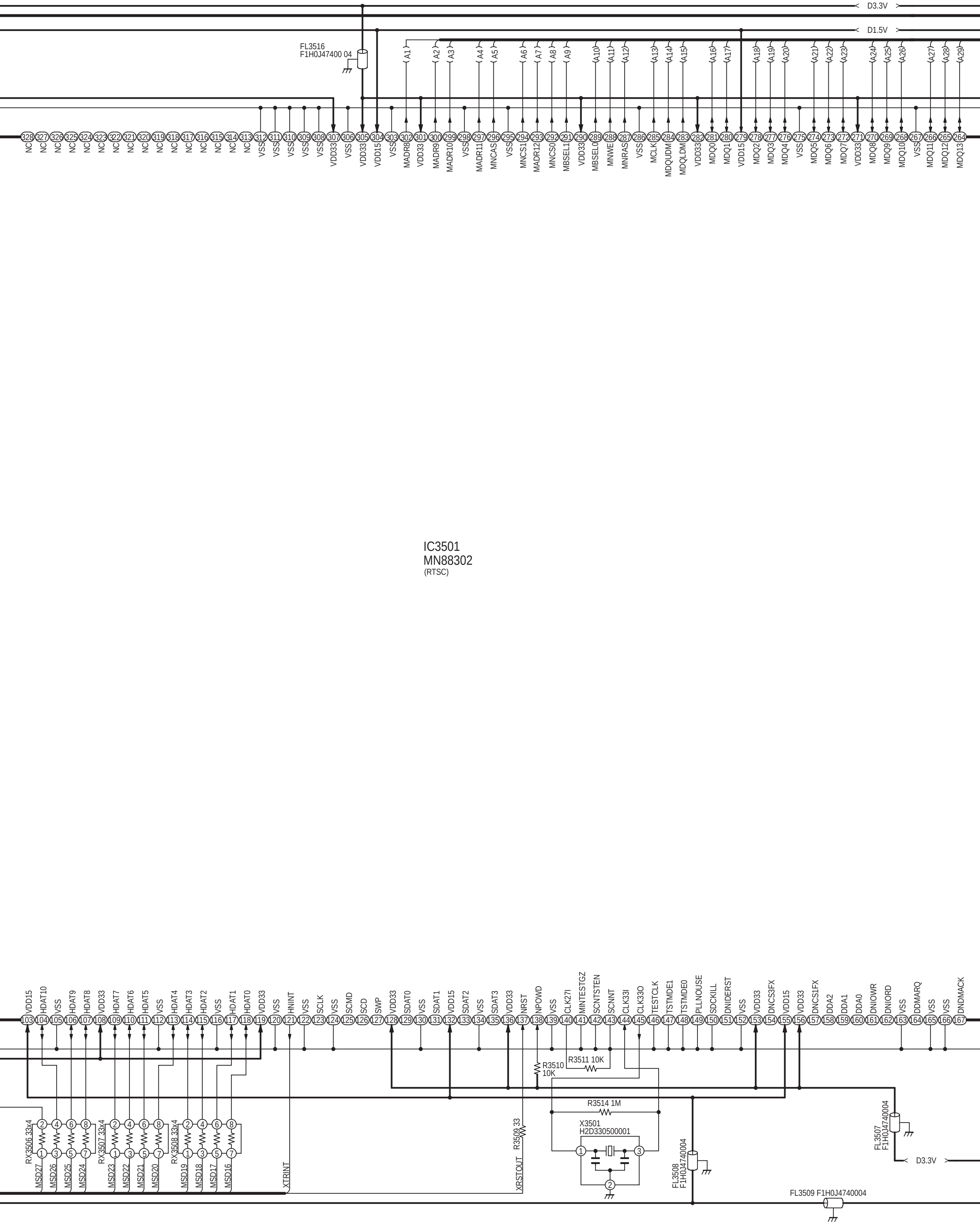
## A DIGITAL MODULE:RTSC (TR) CIRCUIT

—— : +B SIGNAL LINE ▨➡ : CD-DA SIGNAL LINE


FL3514
F1H0J4740004
FL3513
F1H0J4740004
RX3501 22x4
TR MAB7
TR MAB6
TR MAB5
TR MAB4
RX3502 22x4
TR MAB3
TR MAB2
TR MAB1
TR MAB0
RX3538 47Kx4
FL3515
F1H0J4740004
RX3540 47Kx4
RX3539 47Kx4
D 1.5V
DGND
ED0
ED1
ED2
ED3
ED4
ED5
ED6
ED7
RCLKI
CDACK
CDREADY
D 3.3V
STD0
STD1
STD2
STD3
STD4
STD5
STD6
STD7
STCLK
SVALID
STEN
RX3503 22x4
RX3504 22x4
R3501 22
R3502 22
R3503 22
XTRCS
XMRE
XMWE2
XMWE3
XTRDK
MSA1
MSA2
MSA3
MSA4
SA5
SA6
SA7
SA8
SA9
SA10
SA12
SA13
SA14
SA15
SA16
SA17
SA18
SA19
SA20
SA21
FL3505
F1H0J4740004
SA11
MSD16
MSD17
MSD18
MSD19
MSD20
MSD21
MSD22
MSD23
MSD24
MSD25
MSD26
MSD27
MSD28
MSD29
MSD30
MSD31
XTRINT
XRSTOUT
D3.3V
D1.5V
FL3506
F1H0J4740004
RX3505 33x4
IC3501
MN88302
(RTSC)
1 VSS
2 MADR7
3 MADR6
4 MADR5
5 MADR4
6 MADR3
7 VSS
8 MADR2
9 MADR1
10 MADR0
11 VDD33
12 B1DATA0
13 B1DATA1
14 VDD15
15 B1DATA2
16 B1DATA3
17 B1DATA4
18 VSS
19 B1DATA5
20 B1DATA6
21 B1DATA7
22 VDD33
23 B1ENBL
24 B1PCTL
25 B1STRB
26 VDD33
27 B2DATA0
28 B2DATA1
29 VSS
30 B2DATA2
31 B2DATA3
32 VSS
33 B2DATA4
34 B2DATA5
35 VDD15
36 B2DATA6
37 B2DATA7
38 VDD33
39 VSS
40 B2ENBL
41 B2PCTL
42 B2STRB
43 VSS
44 VDD33
45 VSS
46 B3DATA0
47 B3DATA1
48 B3DATA2
49 B3DATA3
50 VSS
51 VDD33
52 VSS
53 B3DATA4
54 B3DATA5
55 B3DATA6
56 B3DATA7
57 VDD15
58 B3ENBL
59 B3PCTL
60 B3STRB
61 VDD33
62 VSS
63 HNCS
64 HNRE
65 HNME0
66 HNME1
67 HNDK
68 HADR1
69 HADR2
70 HADR3
71 HADR4
72 VSS
73 VDD33
74 VSS
75 HADR5
76 HADR6
77 HADR7
78 HADR8
79 HADR9
80 HADR10
81 HADR11
82 HADR12
83 VSS
84 VSS
85 HADR13
86 HADR14
87 HADR15
88 VDD33
89 HADR16
90 HADR17
91 VSS
92 HADR18
93 HADR19
94 HADR20
95 HADR21
96 VDD33
97 HDAT15
98 HDAT14
99 VSS
100 HDAT13
101 HDAT12
102 HDAT11
344 NC
343 NC
342 NC
341 NC
340 NC
339 NC
338 NC
337 NC
336 NC
335 NC
334 NC
333 NC
332 NC
331 NC
330 NC
329 NC
CDREADY
CDACK
RCLKI
MSD31
MSD30
MSD29
MSD28
GN
EN
MO

—— : +B SIGNAL LINE

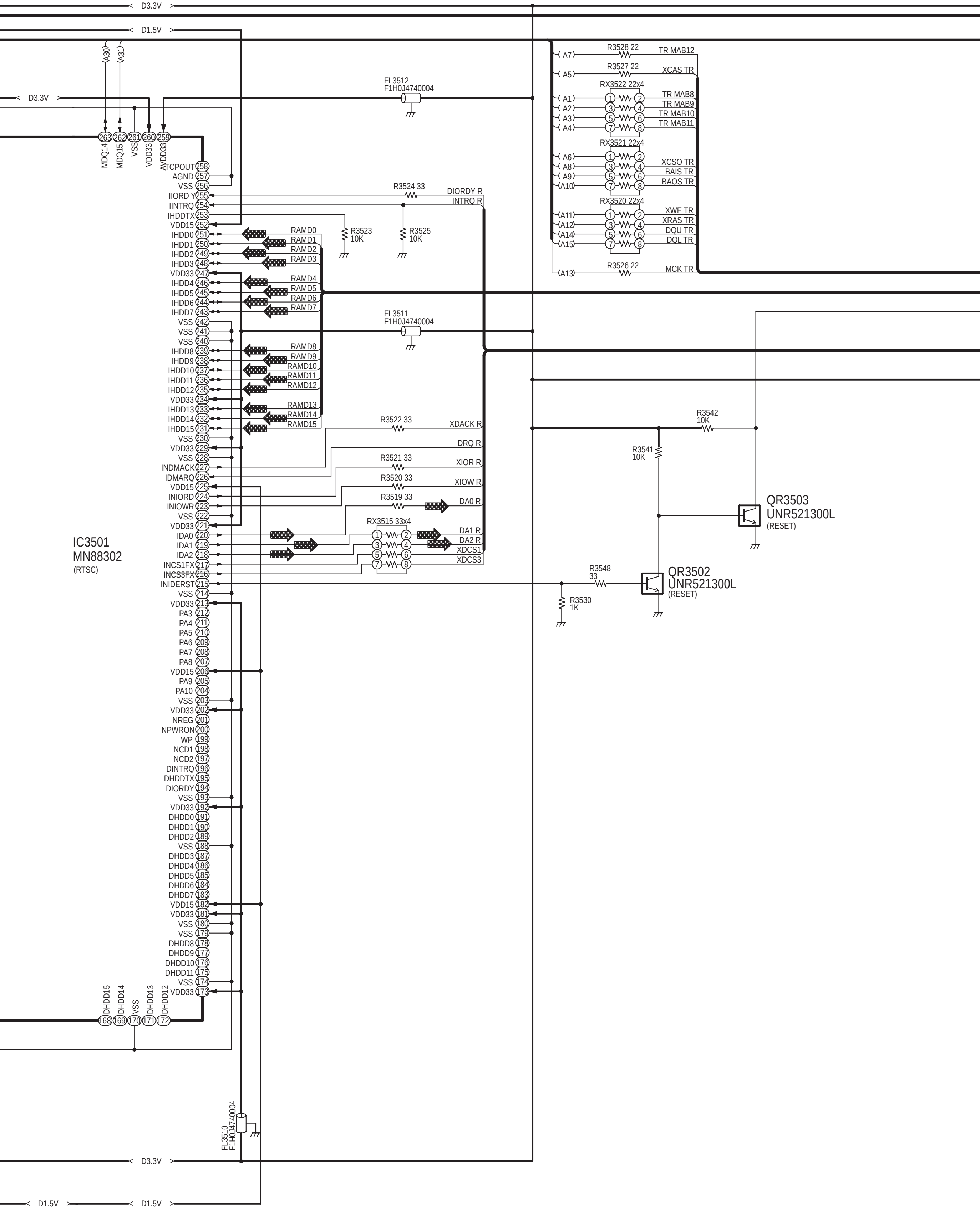
## A DIGITAL MODULE:RTSC (TR) CIRCUIT


D3.3V
D1.5V
FL3516
F1H0J47400 04
A1
A2
A3
A4
A5
A6
A7
A8
A9
A10
A11
A12
A13
A14
A15
A16
A17
A18
A19
A20
A21
A22
A23
A24
A25
A26
A27
A28
A29
328 NC
327 NC
326 NC
325 NC
324 NC
323 NC
322 NC
321 NC
320 NC
319 NC
318 NC
317 NC
316 NC
315 NC
314 NC
313 NC
312 VSS
311 VSS
310 VSS
309 VSS
308 VSS
307 VDD33
306 VSS
305 VDD33
304 VDD15
303 VSS
302 MADR8
301 VDD33
300 MADR9
299 MADR10
298 VSS
297 MADR11
296 MNCAS
295 VSS
294 MNCS1
293 MADR12
292 MNCS0
291 MBSEL1
290 VDD33
289 MBSEL0
288 MNWE
287 MNRAS
286 VSS
285 MCLK
284 MDQUDM
283 MDQLDM
282 VDD33
281 MDQ0
280 MDQ1
279 VDD15
278 MDQ2
277 MDQ3
276 MDQ4
275 VSS
274 MDQ5
273 MDQ6
272 MDQ7
271 VDD33
270 MDQ8
269 MDQ9
268 MDQ10
267 VSS
266 MDQ11
265 MDQ12
264 MDQ13
IC3501
MN88302
(RTSC)
103 VDD15
104 HDAT10
105 VSS
106 HDAT9
107 HDAT8
108 VDD33
109 HDAT7
110 HDAT6
111 HDAT5
112 VSS
113 HDAT4
114 HDAT3
115 HDAT2
116 VSS
117 HDAT1
118 HDAT0
119 VDD33
120 VSS
121 HNINT
122 VSS
123 SCLK
124 VSS
125 SCMD
126 SCD
127 SWP
128 VDD33
129 SDAT0
130 VSS
131 SDAT1
132 VDD15
133 SDAT2
134 VSS
135 SDAT3
136 VDD33
137 NRST
138 NPOWD
139 VSS
140 CLK27I
141 MINTESTGZ
142 SCNTSTEN
143 SCNNT
144 CLK33I
145 CLK33O
146 TESTCLK
147 TSTMDE1
148 TSTMDE0
149 PLLNOUSE
150 SDCKILL
151 DNIDERST
152 VSS
153 VDD33
154 DNCS3FX
155 VDD15
156 VDD33
157 DNCS1FX
158 DDA2
159 DDA1
160 DDA0
161 DNIOWR
162 DNIORD
163 VSS
164 DDMARQ
165 VSS
166 VSS
167 DNDMACK
RX3506 33x4
RX3507 33x4
RX3508 33x4
MSD27
MSD26
MSD25
MSD24
MSD23
MSD22
MSD21
MSD20
MSD19
MSD18
MSD17
MSD16
XTRINT
R3509 33
XRSTOUT
R3510
10K
R3511 10K
R3514 1M
X3501
H2D330500001
FL3508
F1H0J4740004
FL3507
F1H0J4740004
D3.3V
FL3509 F1H0J4740004

## A DIGITAL MODULE:RTSC (TR) CIRCUIT

—— : +B SIGNAL LINE

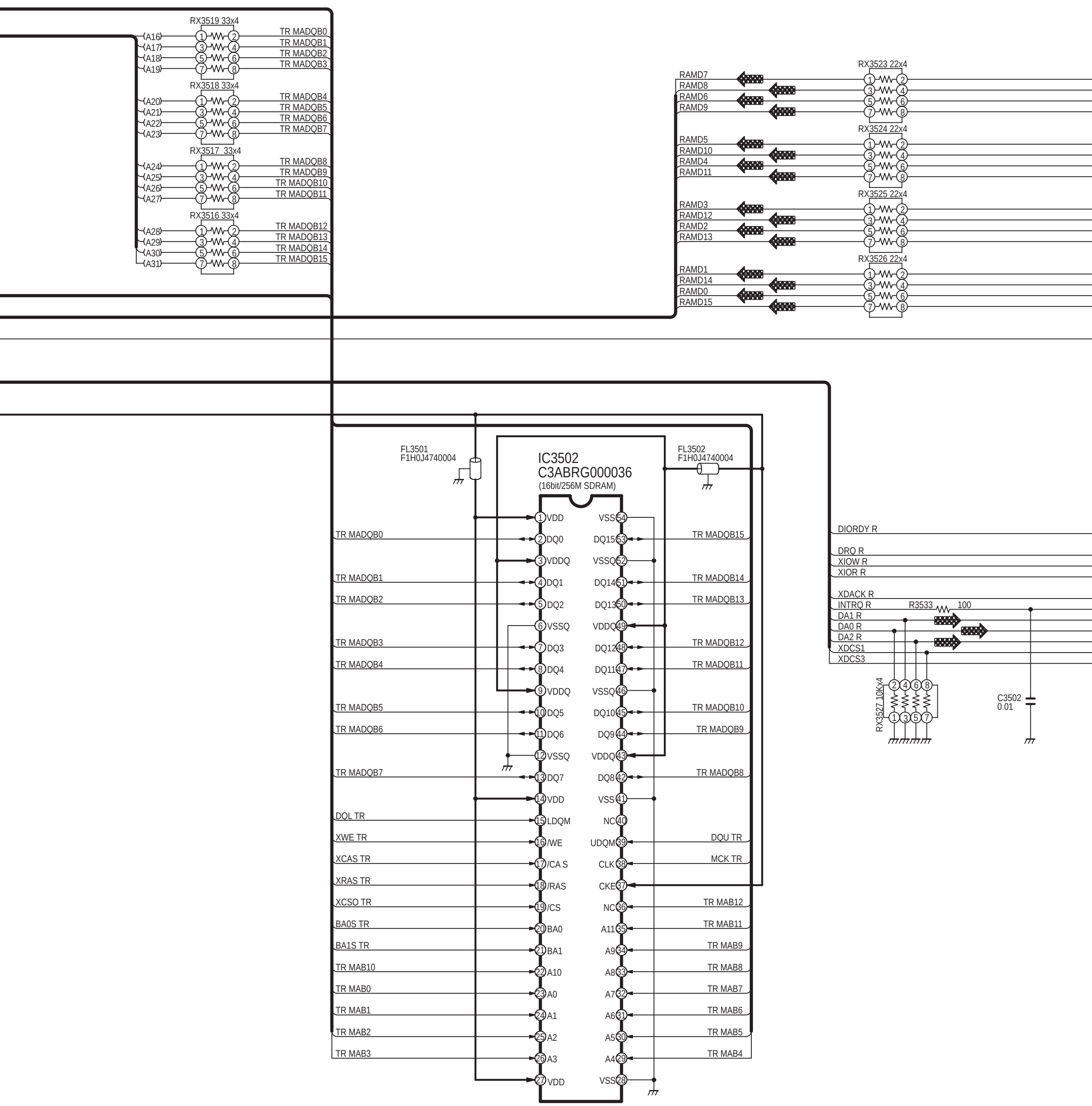
▨ : CD-DA SIGNAL LINE


D3.3V
D1.5V
A30
A31
D3.3V
263 262 261 260 259
MDQ14 MDQ15 VSS VDD33 AVDD33
FL3512
F1H0J4740004
FL3511
F1H0J4740004
A7 A5 A1 A2 A3 A4 A6 A8 A9 A10 A11 A12 A14 A15 A13
R3528 22
TR MAB12
R3527 22
XCAS TR
RX3522 22x4
TR MAB8
TR MAB9
TR MAB10
TR MAB11
RX3521 22x4
XCSO TR
BAIS TR
BAOS TR
RX3520 22x4
XWE TR
XRAS TR
DQU TR
DQL TR
R3526 22
MCK TR
ATCPOUT 258
AGND 257
VSS 256
IIORD Y 255
IINTRQ 254
IHDDTX 253
VDD15 252
IHDD0 251
IHDD1 250
IHDD2 249
IHDD3 248
VDD33 247
IHDD4 246
IHDD5 245
IHDD6 244
IHDD7 243
VSS 242
VSS 241
VSS 240
IHDD8 239
IHDD9 238
IHDD10 237
IHDD11 236
IHDD12 235
VDD33 234
IHDD13 233
IHDD14 232
IHDD15 231
VSS 230
VDD33 229
VSS 228
INDMACK 227
IDMARQ 226
VDD15 225
INIORD 224
INIOWR 223
VSS 222
VDD33 221
IDA0 220
IDA1 219
IDA2 218
INCS1FX 217
INCS3FX 216
INIDERST 215
VSS 214
VDD33 213
PA3 212
PA4 211
PA5 210
PA6 209
PA7 208
PA8 207
VDD15 206
PA9 205
PA10 204
VSS 203
VDD33 202
NREG 201
NPWRON 200
WP 199
NCD1 198
NCD2 197
DINTRQ 196
DHDDTX 195
DIORDY 194
VSS 193
VDD33 192
DHDD0 191
DHDD1 190
DHDD2 189
VSS 188
DHDD3 187
DHDD4 186
DHDD5 185
DHDD6 184
DHDD7 183
VDD15 182
VDD33 181
VSS 180
VSS 179
DHDD8 178
DHDD9 177
DHDD10 176
DHDD11 175
VSS 174
VDD33 173
DHDD15 DHDD14 VSS DHDD13 DHDD12
168 169 170 171 172
IC3501
MN88302
(RTSC)
RAMD0 RAMD1 RAMD2 RAMD3 RAMD4 RAMD5 RAMD6 RAMD7 RAMD8 RAMD9 RAMD10 RAMD11 RAMD12 RAMD13 RAMD14 RAMD15
R3524 33
DIORDY R
INTRQ R
R3523
10K
R3525
10K
R3522 33
XDACK R
DRQ R
R3521 33
XIOR R
R3520 33
XIOW R
R3519 33
DA0 R
RX3515 33x4
DA1 R
DA2 R
XDCS1
XDCS3
R3542
10K
R3541
10K
QR3503
UNR521300L
(RESET)
R3548
33
QR3502
UNR521300L
(RESET)
R3530
1K
FL3510
F1H0J4740004
D3.3V
D1.5V
D1.5V

# A DIGITAL MODULE:RTSC (TR) CIRCUIT

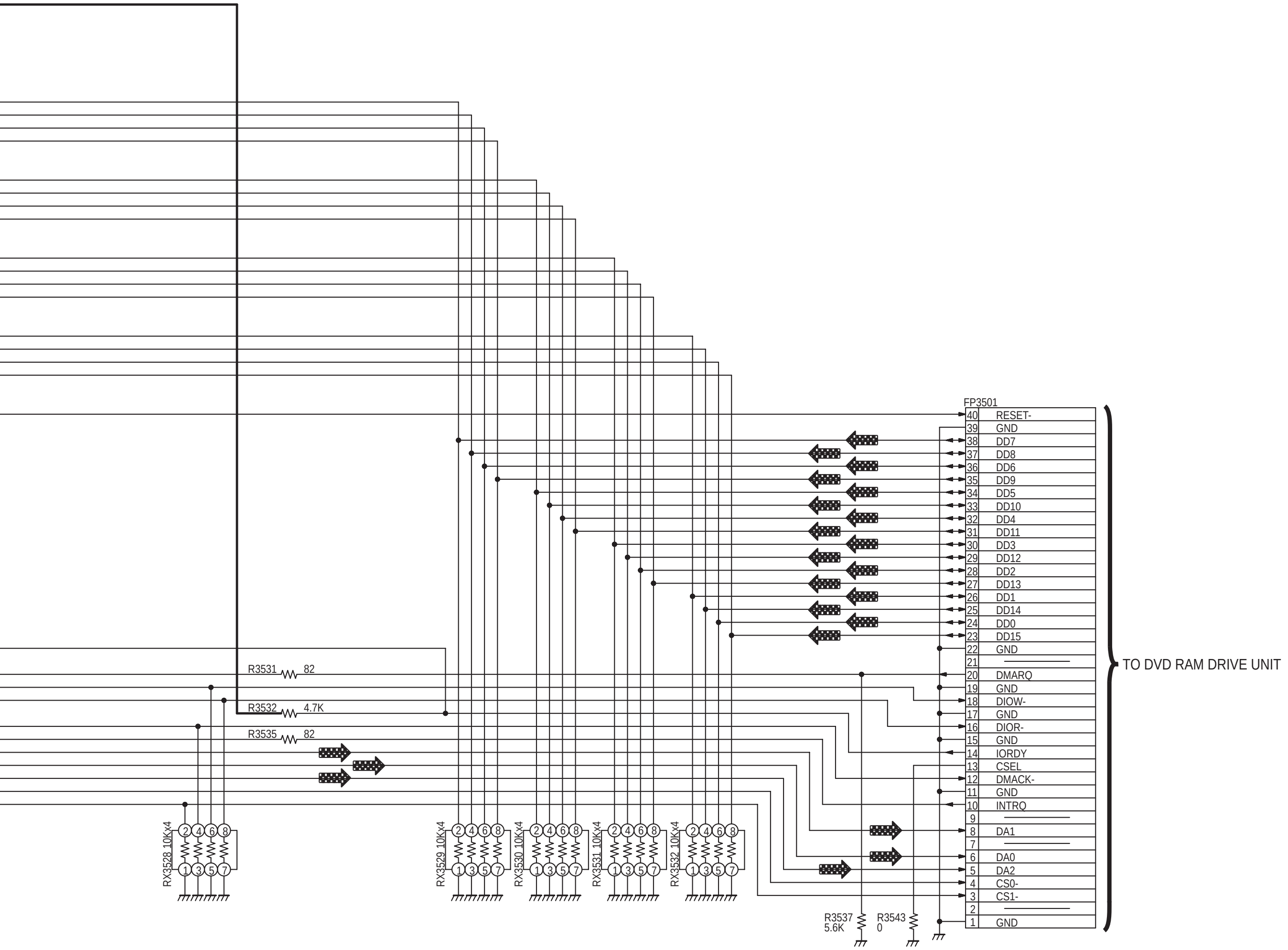
—— : +B SIGNAL LINE

▨➡ : CD-DA SIGNAL LINE


RX3519 33x4
A16
A17
A18
A19
TR MADQB0
TR MADQB1
TR MADQB2
TR MADQB3
RX3518 33x4
A20
A21
A22
A23
TR MADQB4
TR MADQB5
TR MADQB6
TR MADQB7
RX3517 33x4
A24
A25
A26
A27
TR MADQB8
TR MADQB9
TR MADQB10
TR MADQB11
RX3516 33x4
A28
A29
A30
A31
TR MADQB12
TR MADQB13
TR MADQB14
TR MADQB15
RX3523 22x4
RAMD7
RAMD8
RAMD6
RAMD9
RX3524 22x4
RAMD5
RAMD10
RAMD4
RAMD11
RX3525 22x4
RAMD3
RAMD12
RAMD2
RAMD13
RX3526 22x4
RAMD1
RAMD14
RAMD0
RAMD15
FL3501
F1H0J4740004
FL3502
F1H0J4740004
IC3502
C3ABRG000036
(16bit/256M SDRAM)
1 VDD
2 DQ0
3 VDDQ
4 DQ1
5 DQ2
6 VSSQ
7 DQ3
8 DQ4
9 VDDQ
10 DQ5
11 DQ6
12 VSSQ
13 DQ7
14 VDD
15 LDQM
16 /WE
17 /CA S
18 /RAS
19 /CS
20 BA0
21 BA1
22 A10
23 A0
24 A1
25 A2
26 A3
27 VDD
VSS 54
DQ15 53
VSSQ 52
DQ14 51
DQ13 50
VDDQ 49
DQ12 48
DQ11 47
VSSQ 46
DQ10 45
DQ9 44
VDDQ 43
DQ8 42
VSS 41
NC 40
UDQM 39
CLK 38
CKE 37
NC 36
A11 35
A9 34
A8 33
A7 32
A6 31
A5 30
A4 29
VSS 28
TR MADQB0
TR MADQB1
TR MADQB2
TR MADQB3
TR MADQB4
TR MADQB5
TR MADQB6
TR MADQB7
DQL TR
XWE TR
XCAS TR
XRAS TR
XCSO TR
BA0S TR
BA1S TR
TR MAB10
TR MAB0
TR MAB1
TR MAB2
TR MAB3
TR MADQB15
TR MADQB14
TR MADQB13
TR MADQB12
TR MADQB11
TR MADQB10
TR MADQB9
TR MADQB8
DQU TR
MCK TR
TR MAB12
TR MAB11
TR MAB9
TR MAB8
TR MAB7
TR MAB6
TR MAB5
TR MAB4
DIORDY R
DRQ R
XIOW R
XIOR R
XDACK R
INTRQ R
R3533
100
DA1 R
DA0 R
DA2 R
XDCS1
XDCS3
RX3527 10Kx4
C3502
0.01

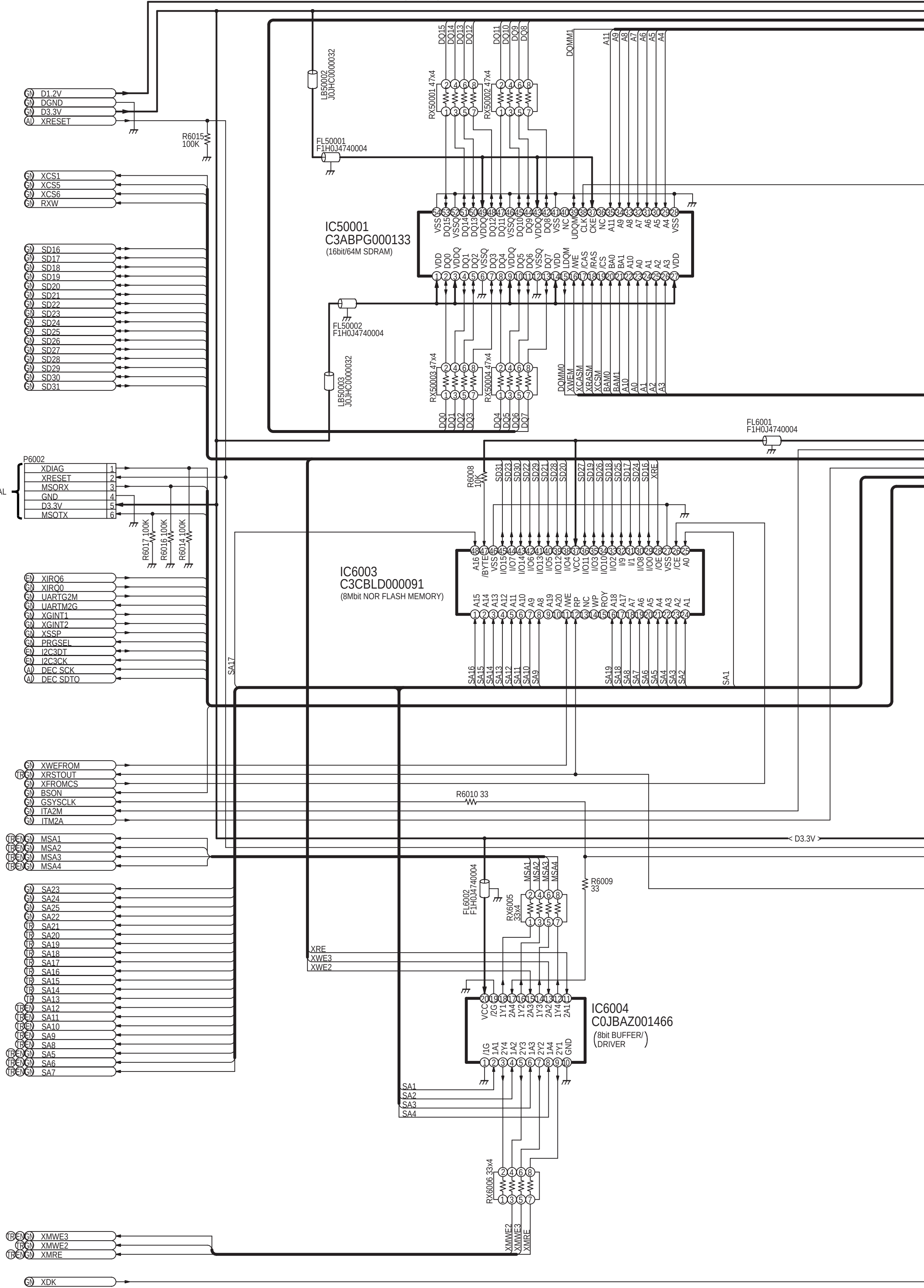
—— : +B SIGNAL LINE ▨ : CD-DA SIGNAL LINE

# A DIGITAL MODULE:RTSC (TR) CIRCUIT


FP3501
40 RESET-
39 GND
38 DD7
37 DD8
36 DD6
35 DD9
34 DD5
33 DD10
32 DD4
31 DD11
30 DD3
29 DD12
28 DD2
27 DD13
26 DD1
25 DD14
24 DD0
23 DD15
22 GND
21
20 DMARQ
19 GND
18 DIOW-
17 GND
16 DIOR-
15 GND
14 IORDY
13 CSEL
12 DMACK-
11 GND
10 INTRQ
9
8 DA1
7
6 DA0
5 DA2
4 CS0-
3 CS1-
2
1 GND
TO DVD RAM DRIVE UNIT
R3531 82
R3532 4.7K
R3535 82
RX3528 10Kx4
RX3529 10Kx4
RX3530 10Kx4
RX3531 10Kx4
RX3532 10Kx4
2 4 6 8
1 3 5 7
R3537 5.6K
R3543 0

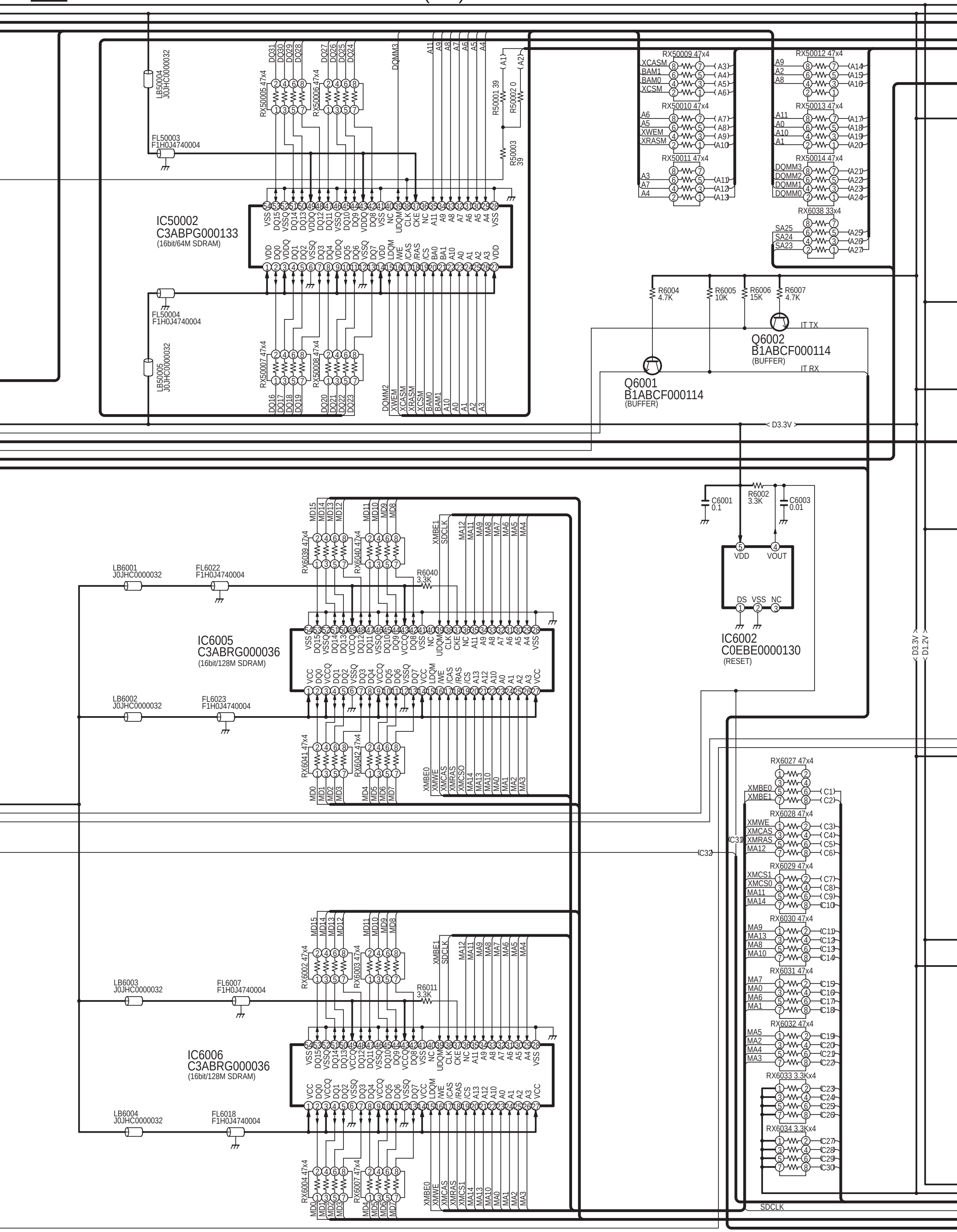
# A DIGITAL MODULE:DECODER/MAIN CPU (MC) CIRCUIT

—— : +B SIGNAL LINE


D1.2V
DGND
D3.3V
XRESET
R6015 100K
LB50002 J0JHC0000032
FL50001 F1H0J4740004
XCS1
XCS5
XCS6
RXW
SD16
SD17
SD18
SD19
SD20
SD21
SD22
SD23
SD24
SD25
SD26
SD27
SD28
SD29
SD30
SD31
DQ15 DQ14 DQ13 DQ12 DQ11 DQ10 DQ9 DQ8
DQMM1
A11 A9 A8 A7 A6 A5 A4
RX50001 47x4
RX50002 47x4
IC50001
C3ABPG000133
(16bit/64M SDRAM)
VSS DQ15 VSSQ DQ14 DQ13 VDDQ DQ12 DQ11 VSSQ DQ10 DQ9 VDDQ DQ8 VSS NC UDQM CLK CKE NC A11 A9 A8 A7 A6 A5 A4 VSS
VDD DQ0 VDDQ DQ1 DQ2 VSSQ DQ3 DQ4 VDDQ DQ5 DQ6 VSSQ DQ7 VDD LDQM /WE /CAS /RAS /CS BA0 BA1 A10 A0 A1 A2 A3 VDD
FL50002 F1H0J4740004
LB50003 J0JHC0000032
RX50003 47x4
RX50004 47x4
DQ0 DQ1 DQ2 DQ3 DQ4 DQ5 DQ6 DQ7
DQMM0 XWEM XCASM XRASM XCSM BAM0 BAM1 A10 A0 A1 A2 A3
FL6001 F1H0J4740004
P6002
TO DIGITAL JIG
1 XDIAG
2 XRESET
3 MSORX
4 GND
5 D3.3V
6 MSOTX
R6017 100K
R6016 100K
R6014 100K
R6008 10K
SD31 SD23 SD30 SD22 SD29 SD21 SD28 SD20 SD27 SD19 SD26 SD18 SD25 SD17 SD24 SD16 XRE
IC6003
C3CBLD000091
(8Mbit NOR FLASH MEMORY)
A16 /BYTE VSS I/O15 I/O7 I/O14 I/O6 I/O13 I/O5 I/O12 I/O4 VCC I/O11 I/O3 I/O10 I/O2 I/9 I/1 I/O8 I/O0 /OE VSS /CE A0
A15 A14 A13 A12 A11 A10 A9 A8 A19 A20 /WE RP NC WP ROY A18 A17 A7 A6 A5 A4 A3 A2 A1
SA17
SA16 SA15 SA14 SA13 SA12 SA11 SA10 SA9
SA19 SA18 SA8 SA7 SA6 SA5 SA4 SA3 SA2
SA1
XIRQ6
XIRQ0
UARTG2M
UARTM2G
XGINT1
XGINT2
XSSP
PRGSEL
I2C3DT
I2C3CK
DEC SCK
DEC SDTO
XWEFROM
XRSTOUT
XFROMCS
BSON
GSYSCLK
ITA2M
ITM2A
R6010 33
D3.3V
MSA1
MSA2
MSA3
MSA4
R6009 33
FL6002 F1H0J4740004
RX6005 33x4
SA23
SA24
SA25
SA22
SA21
SA20
SA19
SA18
SA17
SA16
SA15
SA14
SA13
SA12
SA11
SA10
SA9
SA8
SA5
SA6
SA7
XRE
XWE3
XWE2
IC6004
C0JBAZ001466
(8bit BUFFER/DRIVER)
VCC /2G 1Y1 2A4 1Y2 2A3 1Y3 2A2 1Y4 2A1
/1G 1A1 2Y4 1A2 2Y3 1A3 2Y2 1A4 2Y1 GND
SA1
SA2
SA3
SA4
RX6006 33x4
XMWE2 XMWE3 XMRE
XMWE3
XMWE2
XMRE
XDK

## A DIGITAL MODULE:DECODER/MAIN CPU (MC) CIRCUIT

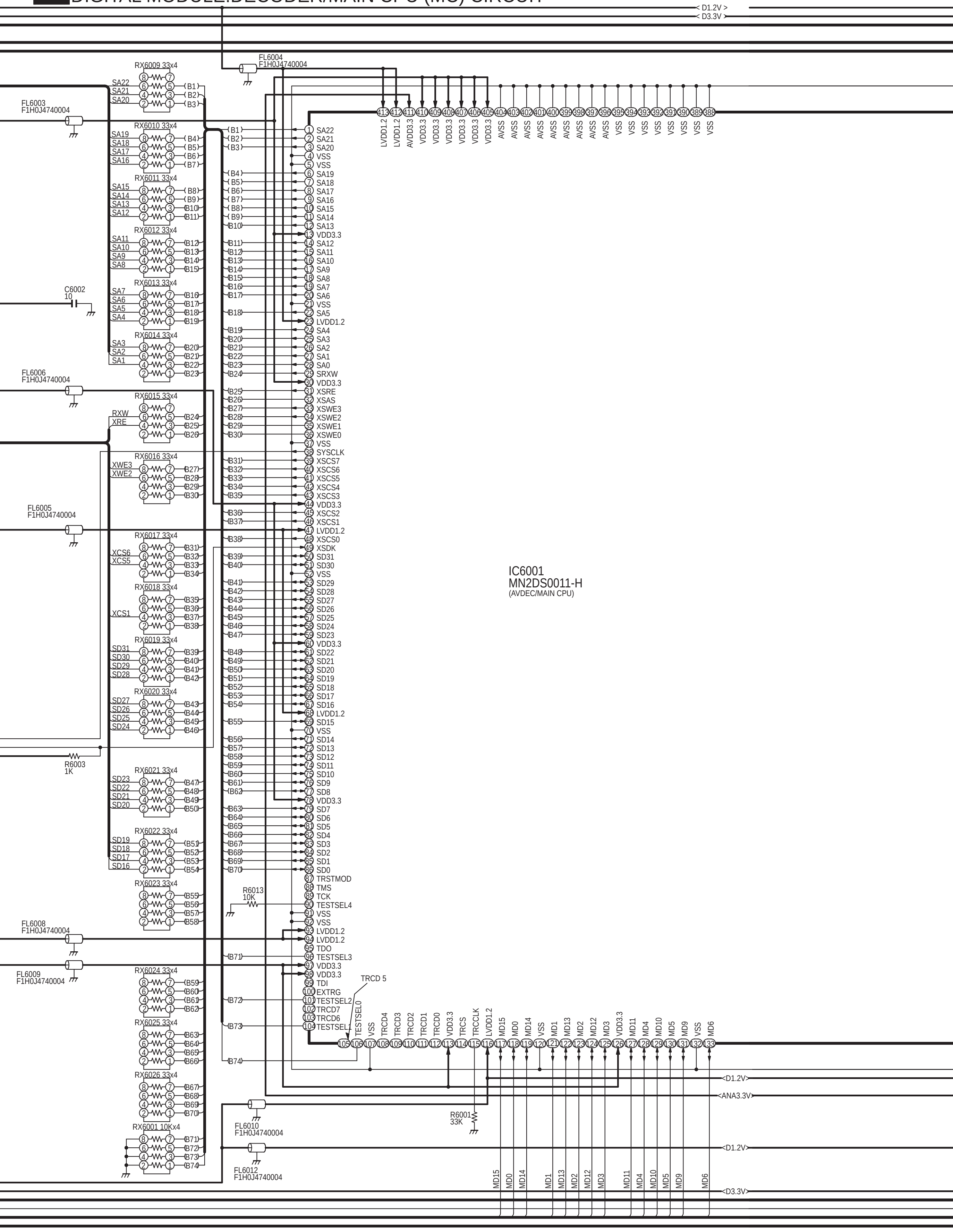
—— : +B SIGNAL LINE


IC50002
C3ABPG000133
(16bit/64M SDRAM)
LB50004
J0JHC0000032
FL50003
F1H0J4740004
FL50004
F1H0J4740004
LB50005
J0JHC0000032
RX50005 47x4
RX50006 47x4
RX50007 47x4
RX50008 47x4
R50001 39
R50002 0
R50003 39
DQMM3
DQMM2
XWEM
XCASM
XRASM
XCSM
BAM0
BAM1
RX50009 47x4
RX50010 47x4
RX50011 47x4
RX50012 47x4
RX50013 47x4
RX50014 47x4
RX6038 33x4
SA25
SA24
SA23
R6004 4.7K
R6005 10K
R6006 15K
R6007 4.7K
Q6002
B1ABCF000114
(BUFFER)
IT TX
IT RX
Q6001
B1ABCF000114
(BUFFER)
D3.3V
C6001 0.1
R6002 3.3K
C6003 0.01
VDD
VOUT
DS
VSS
NC
IC6002
C0EBE0000130
(RESET)
D3.3V
D1.2V
IC6005
C3ABRG000036
(16bit/128M SDRAM)
LB6001
J0JHC0000032
FL6022
F1H0J4740004
LB6002
J0JHC0000032
FL6023
F1H0J4740004
RX6039 47x4
RX6040 47x4
R6040 3.3K
RX6041 47x4
RX6042 47x4
XMBE1
SDCLK
XMBE0
XMWE
XMCAS
XMRAS
XMCS0
XMCS1
RX6027 47x4
RX6028 47x4
RX6029 47x4
RX6030 47x4
RX6031 47x4
RX6032 47x4
RX6033 3.3Kx4
RX6034 3.3Kx4
C31
C32
IC6006
C3ABRG000036
(16bit/128M SDRAM)
LB6003
J0JHC0000032
FL6007
F1H0J4740004
LB6004
J0JHC0000032
FL6018
F1H0J4740004
RX6002 47x4
RX6003 47x4
R6011 3.3K
RX6004 47x4
RX6007 47x4
SDCLK

# SCHEMATIC DIAGRAM - 18

—— : +B SIGNAL LINE

## A DIGITAL MODULE:DECODER/MAIN CPU (MC) CIRCUIT



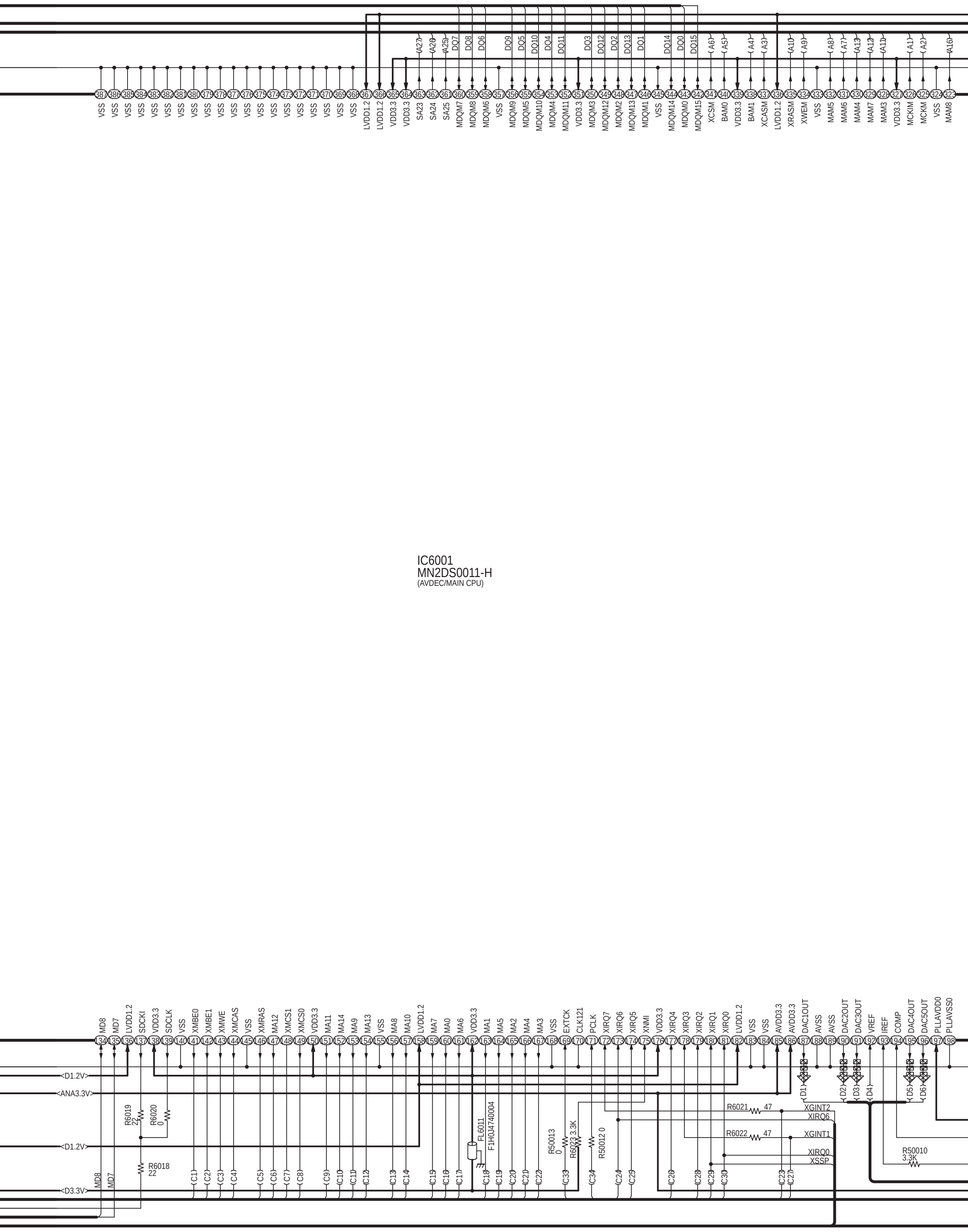
< D1.2V >
< D3.3V >
FL6004
F1H0J4740004
FL6003
F1H0J4740004
FL6006
F1H0J4740004
FL6005
F1H0J4740004
FL6008
F1H0J4740004
FL6009
F1H0J4740004
FL6010
F1H0J4740004
FL6012
F1H0J4740004
C6002
10
R6003
1K
R6013
10K
R6001
33K
RX6009 33x4
RX6010 33x4
RX6011 33x4
RX6012 33x4
RX6013 33x4
RX6014 33x4
RX6015 33x4
RX6016 33x4
RX6017 33x4
RX6018 33x4
RX6019 33x4
RX6020 33x4
RX6021 33x4
RX6022 33x4
RX6023 33x4
RX6024 33x4
RX6025 33x4
RX6026 33x4
RX6001 10Kx4
SA22
SA21
SA20
SA19
SA18
SA17
SA16
SA15
SA14
SA13
SA12
SA11
SA10
SA9
SA8
SA7
SA6
SA5
SA4
SA3
SA2
SA1
RXW
XRE
XWE3
XWE2
XCS6
XCS5
XCS1
SD31
SD30
SD29
SD28
SD27
SD26
SD25
SD24
SD23
SD22
SD21
SD20
SD19
SD18
SD17
SD16
IC6001
MN2DS0011-H
(AVDEC/MAIN CPU)
1 SA22
2 SA21
3 SA20
4 VSS
5 VSS
6 SA19
7 SA18
8 SA17
9 SA16
10 SA15
11 SA14
12 SA13
13 VDD3.3
14 SA12
15 SA11
16 SA10
17 SA9
18 SA8
19 SA7
20 SA6
21 VSS
22 SA5
23 LVDD1.2
24 SA4
25 SA3
26 SA2
27 SA1
28 SA0
29 SRXW
30 VDD3.3
31 XSRE
32 XSAS
33 XSWE3
34 XSWE2
35 XSWE1
36 XSWE0
37 VSS
38 SYSCLK
39 XSCS7
40 XSCS6
41 XSCS5
42 XSCS4
43 XSCS3
44 VDD3.3
45 XSCS2
46 XSCS1
47 LVDD1.2
48 XSCS0
49 XSDK
50 SD31
51 SD30
52 VSS
53 SD29
54 SD28
55 SD27
56 SD26
57 SD25
58 SD24
59 SD23
60 VDD3.3
61 SD22
62 SD21
63 SD20
64 SD19
65 SD18
66 SD17
67 SD16
68 LVDD1.2
69 SD15
70 VSS
71 SD14
72 SD13
73 SD12
74 SD11
75 SD10
76 SD9
77 SD8
78 VDD3.3
79 SD7
80 SD6
81 SD5
82 SD4
83 SD3
84 SD2
85 SD1
86 SD0
87 TRSTMOD
88 TMS
89 TCK
90 TESTSEL4
91 VSS
92 VSS
93 LVDD1.2
94 LVDD1.2
95 TDO
96 TESTSEL3
97 VDD3.3
98 VDD3.3
99 TDI
100 EXTRG
101 TESTSEL2
102 TRCD7
103 TRCD6
104 TESTSEL1
TRCD 5
105 TESTSEL0
106 VSS
107 TRCD4
108 TRCD3
109 TRCD2
110 TRCD1
111 TRCD0
112 VDD3.3
113 TRCS
114 TRCCLK
115 LVDD1.2
116 MD15
117 MD0
118 MD14
119 VSS
120 MD1
121 MD13
122 MD2
123 MD12
124 MD3
125 VDD3.3
126 MD11
127 MD4
128 MD10
129 MD5
130 MD9
131 VSS
132 MD6
133
413 LVDD1.2
412 LVDD1.2
411 AVDD3.3
410 VDD3.3
409 VDD3.3
408 VDD3.3
407 VDD3.3
406 VDD3.3
405 VDD3.3
404 AVSS
403 AVSS
402 AVSS
401 AVSS
400 AVSS
399 AVSS
398 AVSS
397 AVSS
396 AVSS
395 VSS
394 VSS
393 VSS
392 VSS
391 VSS
390 VSS
389 VSS
388 VSS
B1 … B74
<D1.2V>
<ANA3.3V>
<D1.2V>
<D3.3V>
MD15
MD0
MD14
MD1
MD13
MD2
MD12
MD3
MD11
MD4
MD10
MD5
MD9
MD6

# SCHEMATIC DIAGRAM - 19

## A DIGITAL MODULE:DECODER/MAIN CPU (MC) CIRCUIT

: +B SIGNAL LINE

: DVD VIDEO SIGNAL LINE


D1.2V
D3.3V
ANA3.3V
IC6001
MN2DS0011-H
(AVDEC/MAIN CPU)
R6018 22
R6019 22
R6020 0
FL6011 F1H0J4740004
R50013 0
R6023 3.3K
R50012 0
R6021 47
R6022 47
R50010 3.3K
XGINT2
XIRQ6
XGINT1
XIRQ0
XSSP
MD8
MD7

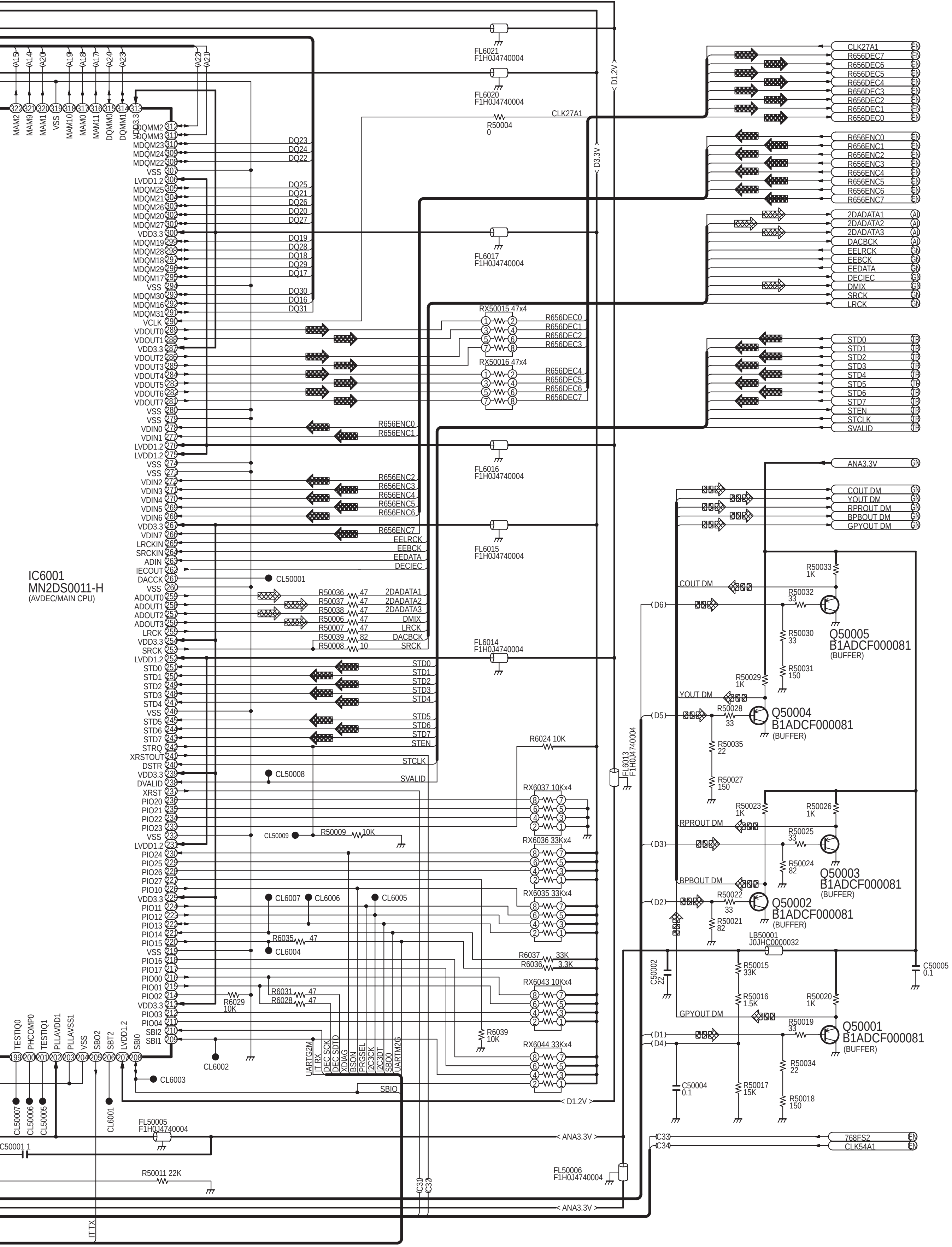
# A DIGITAL MODULE:DECODER/MAIN CPU (MC) CIRCUIT

: +B SIGNAL LINE

: DVD AUDIO SIGNAL LINE

: CD-DA SIGNAL LINE

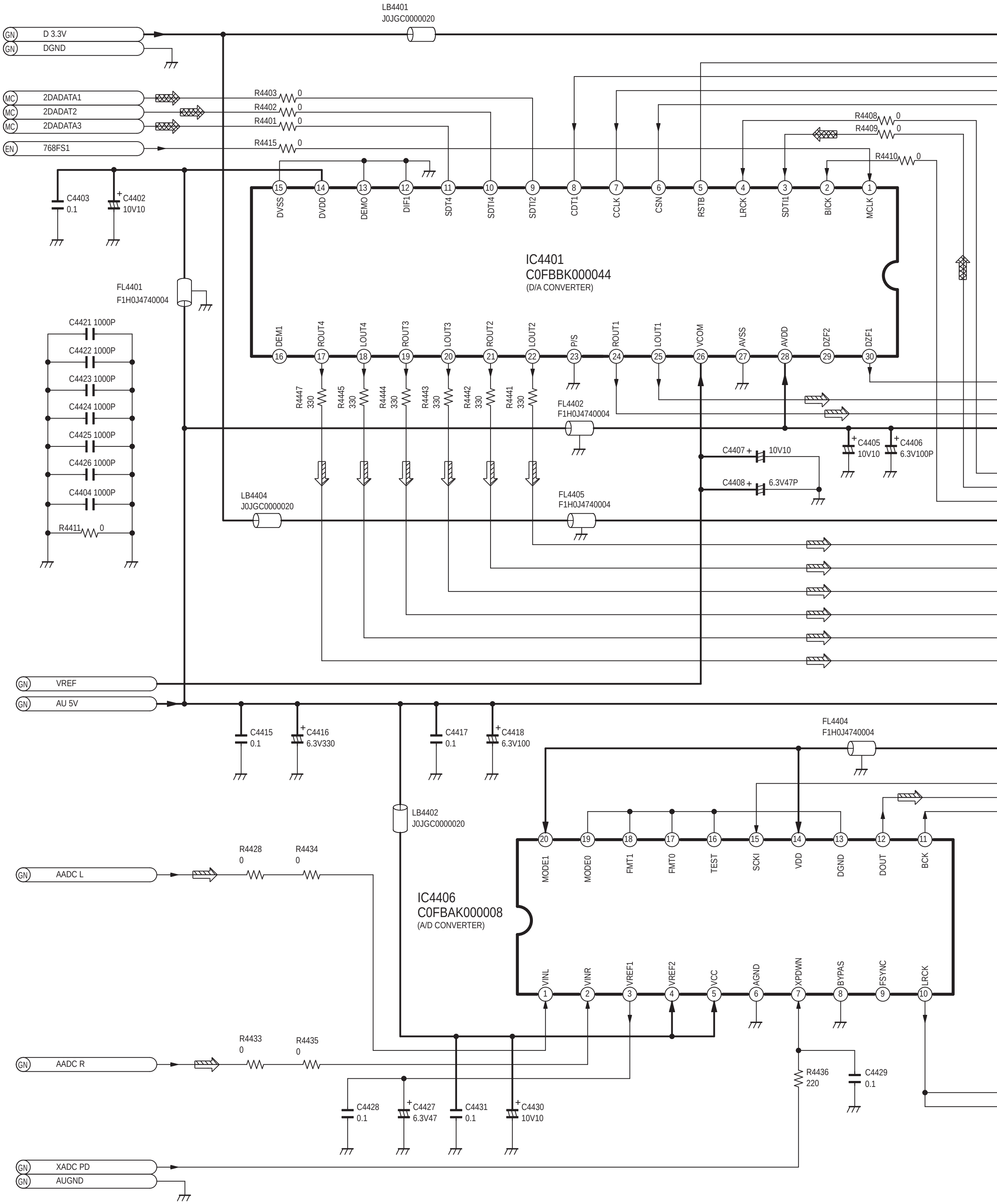
: DVD VIDEO SIGNAL LINE


IC6001
MN2DS0011-H
(AVDEC/MAIN CPU)
A15 A14 A20 A19 A18 A17 A24 A23 A22 A21
MAM2 MAM9 MAM1 VSS MAM10 MAM0 MAM11 DQMM0 DQMM1 VDD3.3
DQMM2 DQMM3 MDQM23 MDQM24 MDQM22 VSS LVDD1.2 MDQM25 MDQM21 MDQM26 MDQM20 MDQM27 VDD3.3 MDQM19 MDQM28 MDQM18 MDQM29 MDQM17 VSS MDQM30 MDQM16 MDQM31
VCLK VDOUT0 VDOUT1 VDD3.3 VDOUT2 VDOUT3 VDOUT4 VDOUT5 VDOUT6 VDOUT7 VSS VSS VDIN0 VDIN1 LVDD1.2 LVDD1.2 VSS VSS VDIN2 VDIN3 VDIN4 VDIN5 VDIN6 VDD3.3 VDIN7
LRCKIN SRCKIN ADIN IECOUT DACCK VSS ADOUT0 ADOUT1 ADOUT2 ADOUT3 LRCK VDD3.3 SRCK LVDD1.2
STD0 STD1 STD2 STD3 STD4 VSS STD5 STD6 STD7 STRQ XRSTOUT DSTR VDD3.3 DVALID XRST
PIO20 PIO21 PIO22 PIO23 VSS LVDD1.2 PIO24 PIO25 PIO26 PIO27 PIO10 VDD3.3 PIO11 PIO12 PIO13 PIO14 PIO15 VSS PIO16 PIO17 PIO00 PIO01 PIO02 VDD3.3 PIO03 PIO04 SBI2 SBI1
TESTIQ0 PHCOMP0 TESTIQ1 PLLAVDD1 PLLAVSS1 VSS SBO2 SBT2 LVDD1.2 SBI0
DQ23 DQ24 DQ22 DQ25 DQ21 DQ26 DQ20 DQ27 DQ19 DQ28 DQ18 DQ29 DQ17 DQ30 DQ16 DQ31
FL6021 F1H0J4740004
FL6020 F1H0J4740004
R50004 0
CLK27A1
D1.2V
D3.3V
FL6017 F1H0J4740004
RX50015 47x4
RX50016 47x4
R656DEC0 R656DEC1 R656DEC2 R656DEC3 R656DEC4 R656DEC5 R656DEC6 R656DEC7
R656ENC0 R656ENC1 R656ENC2 R656ENC3 R656ENC4 R656ENC5 R656ENC6 R656ENC7
FL6016 F1H0J4740004
FL6015 F1H0J4740004
FL6014 F1H0J4740004
EELRCK EEBCK EEDATA DECIEC
CL50001
R50036 47 R50037 47 R50038 47 R50006 47 R50007 47 R50039 82 R50008 10
2DADATA1 2DADATA2 2DADATA3 DMIX LRCK DACBCK SRCK
STD0 STD1 STD2 STD3 STD4 STD5 STD6 STD7 STEN STCLK SVALID
CL50008
R6024 10K
RX6037 10Kx4
CL50009 R50009 10K
RX6036 33Kx4
CL6007 CL6006 CL6005
RX6035 33Kx4
R6035 47
CL6004
R6037 33K R6036 3.3K
RX6043 10Kx4
R6029 10K
R6031 47 R6028 47
R6039 10K
RX6044 33Kx4
CL6002
CL6003
UARTG2M IT RX DEC SCK DEC SDTD XDIAG BSON PRGSEL I2C3CK I2C3DT SBO0 UARTM2G
SBIO
FL6013 F1H0J4740004
CL50007 CL50006 CL50005 CL6001
FL50005 F1H0J4740004
CL50001 1
R50011 22K
IT TX
C31 C32
FL50006 F1H0J4740004
ANA3.3V
CLK27A1 R656DEC7 R656DEC6 R656DEC5 R656DEC4 R656DEC3 R656DEC2 R656DEC1 R656DEC0 EN
R656ENC0 R656ENC1 R656ENC2 R656ENC3 R656ENC4 R656ENC5 R656ENC6 R656ENC7 EN
2DADATA1 2DADATA2 2DADATA3 DACBCK AI
EELRCK EEBCK EEDATA DECIEC DMIX SRCK LRCK GN
STD0 STD1 STD2 STD3 STD4 STD5 STD6 STD7 STEN STCLK SVALID TR
ANA3.3V GN
COUT DM YOUT DM RPROUT DM BPBOUT DM GPYOUT DM GN
R50033 1K
COUT DM
R50032 33
D6
Q50005 B1ADCF000081 (BUFFER)
R50030 33
R50031 150
R50029 1K
YOUT DM
D5
R50028 33
Q50004 B1ADCF000081 (BUFFER)
R50035 22
R50027 150
R50023 1K R50026 1K
RPROUT DM
R50025 33
D3
R50024 82
Q50003 B1ADCF000081 (BUFFER)
BPBOUT DM
D2
R50022 33
Q50002 B1ADCF000081 (BUFFER)
R50021 82
LB50001 J0JHC0000032
C50002 22
R50015 33K
C50005 0.1
R50016 1.5K
R50020 1K
GPYOUT DM
R50019 33
D1 D4
Q50001 B1ADCF000081 (BUFFER)
R50034 22
C50004 0.1
R50017 15K
R50018 150
C33 C34
768FS2 CLK54A1 EN

# SCHEMATIC DIAGRAM - 21

— : +B SIGNAL LINE ⇨ : MAIN SIGNAL LINE ▨ : DVD AUDIO SIGNAL LINE

## A DIGITAL MODULE:AUDIO I/O (AI) CIRCUIT

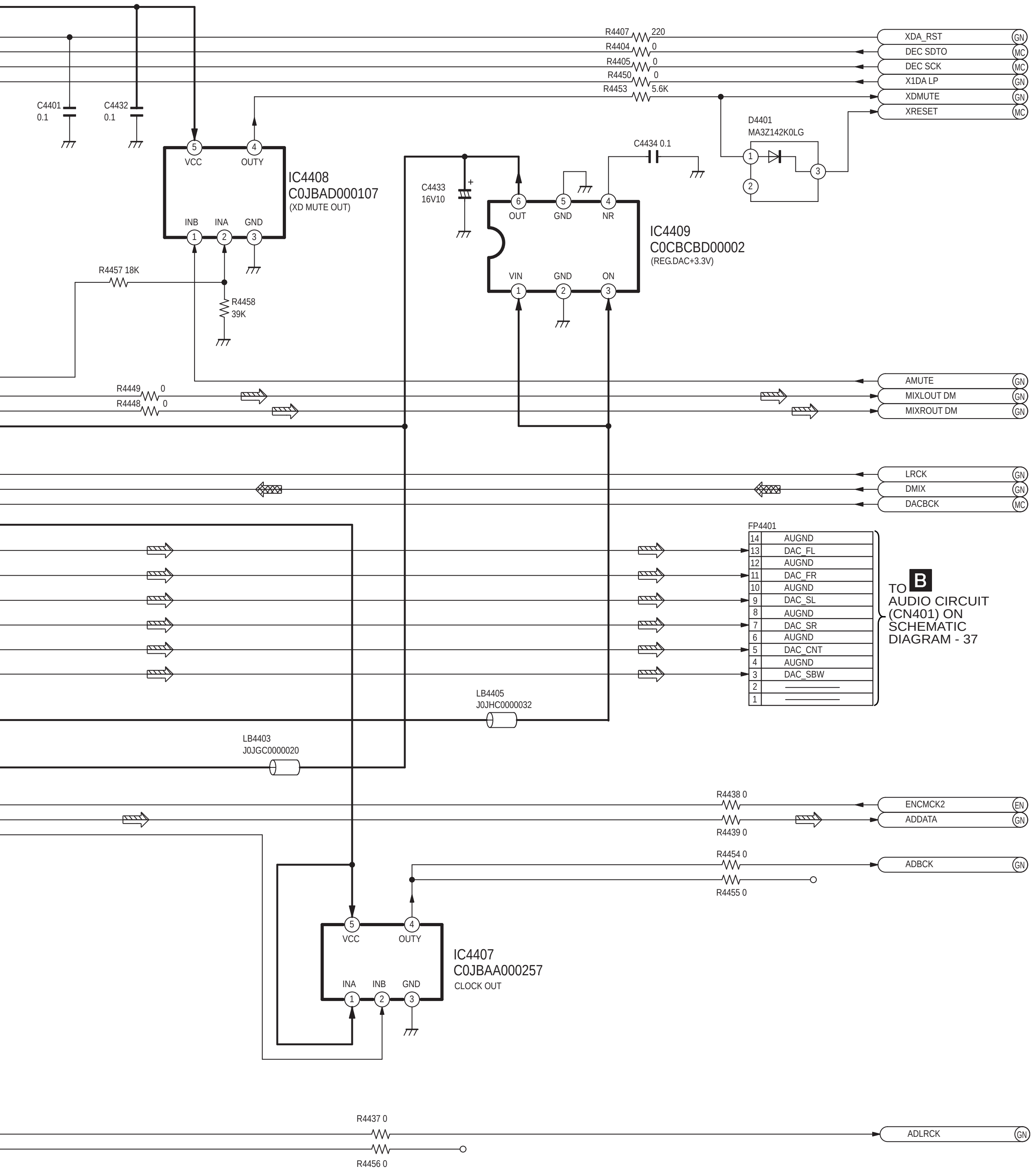


LB4401
J0JGC0000020
GN D 3.3V
GN DGND
MC 2DADATA1
MC 2DADAT2
MC 2DADATA3
EN 768FS1
R4403 0
R4402 0
R4401 0
R4415 0
R4408 0
R4409 0
R4410 0
C4403 0.1
C4402 10V10
DVSS
DVDD
DEMO
DIF1
SDT4
SDTI4
SDTI2
CDT1
CCLK
CSN
RSTB
LRCK
SDTI1
BICK
MCLK
IC4401
C0FBBK000044
(D/A CONVERTER)
DEM1
ROUT4
LOUT4
ROUT3
LOUT3
ROUT2
LOUT2
P/S
ROUT1
LOUT1
VCOM
AVSS
AVDD
DZF2
DZF1
FL4401
F1H0J4740004
C4421 1000P
C4422 1000P
C4423 1000P
C4424 1000P
C4425 1000P
C4426 1000P
C4404 1000P
R4411 0
R4447 330
R4445 330
R4444 330
R4443 330
R4442 330
R4441 330
FL4402
F1H0J4740004
C4407 10V10
C4408 6.3V47P
C4405 10V10
C4406 6.3V100P
LB4404
J0JGC0000020
FL4405
F1H0J4740004
GN VREF
GN AU 5V
C4415 0.1
C4416 6.3V330
C4417 0.1
C4418 6.3V100
FL4404
F1H0J4740004
LB4402
J0JGC0000020
R4428 0
R4434 0
GN AADC L
MODE1
MODE0
FMT1
FMT0
TEST
SCKI
VDD
DGND
DOUT
BCK
IC4406
C0FBAK000008
(A/D CONVERTER)
VINL
VINR
VREF1
VREF2
VCC
AGND
XPDWN
BYPAS
FSYNC
LRCK
R4433 0
R4435 0
GN AADC R
R4436 220
C4429 0.1
C4428 0.1
C4427 6.3V47
C4431 0.1
C4430 10V10
GN XADC PD
GN AUGND

# SCHEMATIC DIAGRAM - 22

—— : +B SIGNAL LINE ⇨ : MAIN SIGNAL LINE ▨⇨ : DVD AUDIO SIGNAL LINE

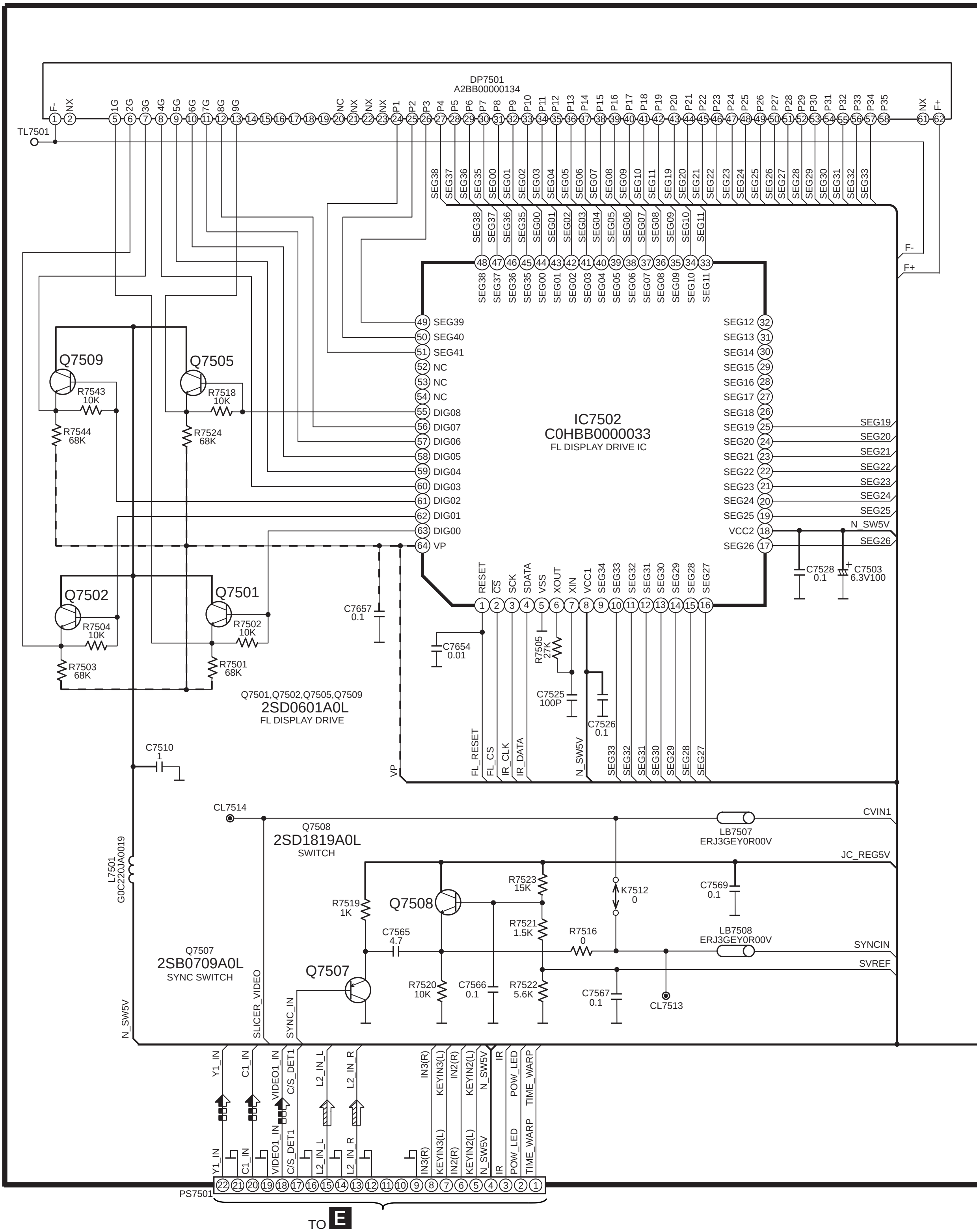
## A DIGITAL MODULE:AUDIO I/O (AI) CIRCUIT


R4407 220
R4404 0
R4405 0
R4450 0
R4453 5.6K
XDA_RST GN
DEC SDTO MC
DEC SCK MC
X1DA LP GN
XDMUTE GN
XRESET MC
C4401 0.1
C4432 0.1
D4401
MA3Z142K0LG
C4434 0.1
IC4408
C0JBAD000107
(XD MUTE OUT)
VCC
OUTY
INB
INA
GND
C4433
16V10
IC4409
C0CBCBD00002
(REG.DAC+3.3V)
OUT
GND
NR
VIN
GND
ON
R4457 18K
R4458
39K
AMUTE GN
MIXLOUT DM GN
MIXROUT DM GN
R4449 0
R4448 0
LRCK GN
DMIX GN
DACBCK MC
FP4401
14 AUGND
13 DAC_FL
12 AUGND
11 DAC_FR
10 AUGND
9 DAC_SL
8 AUGND
7 DAC_SR
6 AUGND
5 DAC_CNT
4 AUGND
3 DAC_SBW
2
1
TO B
AUDIO CIRCUIT
(CN401) ON
SCHEMATIC
DIAGRAM - 37
LB4405
J0JHC0000032
LB4403
J0JGC0000020
R4438 0
R4439 0
ENCMCK2 EN
ADDATA GN
R4454 0
R4455 0
ADBCK GN
IC4407
C0JBAA000257
CLOCK OUT
VCC
OUTY
INA
INB
GND
R4437 0
R4456 0
ADLRCK GN

# SCHEMATIC DIAGRAM - 23

—— : +B SIGNAL LINE　– – : -B SIGNAL LINE　⇨ : MAIN SIGNAL LINE　▮▮▮➡ : VIDEO SIGNAL LINE

## B MAIN 1 CIRCUIT



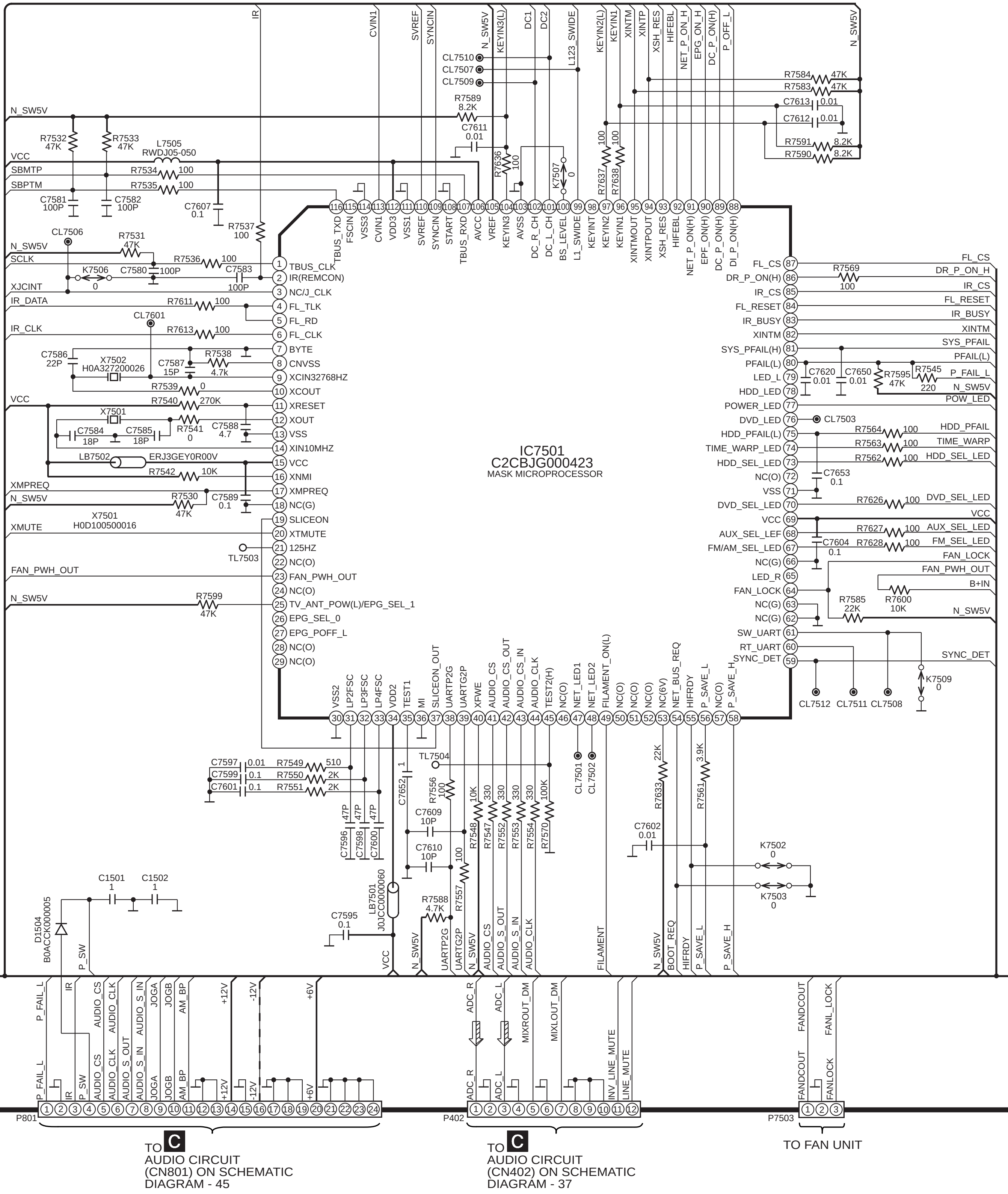
DP7501
A2BB00000134
F- NX 1G 2G 3G 4G 5G 6G 7G 8G 9G NC NX NX NX P1 P2 P3 P4 P5 P6 P7 P8 P9 P10 P11 P12 P13 P14 P15 P16 P17 P18 P19 P20 P21 P22 P23 P24 P25 P26 P27 P28 P29 P30 P31 P32 P33 P34 P35 NX F+
① ② ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳ ㉑ ㉒ ㉓ ㉔ ㉕ ㉖ ㉗ ㉘ ㉙ ㉚ ㉛ ㉜ ㉝ ㉞ ㉟ ㊱ ㊲ ㊳ ㊴ ㊵ ㊶ ㊷ ㊸ ㊹ ㊺ ㊻ ㊼ ㊽ ㊾ ㊿ (51) (52) (53) (54) (55) (56) (57) (58) (61) (62)
TL7501
SEG38 SEG37 SEG36 SEG35 SEG00 SEG01 SEG02 SEG03 SEG04 SEG05 SEG06 SEG07 SEG08 SEG09 SEG10 SEG11 SEG19 SEG20 SEG21 SEG22 SEG23 SEG24 SEG25 SEG26 SEG27 SEG28 SEG29 SEG30 SEG31 SEG32 SEG33
F-
F+
IC7502
C0HBB0000033
FL DISPLAY DRIVE IC
48 SEG38, 47 SEG37, 46 SEG36, 45 SEG35, 44 SEG00, 43 SEG01, 42 SEG02, 41 SEG03, 40 SEG04, 39 SEG05, 38 SEG06, 37 SEG07, 36 SEG08, 35 SEG09, 34 SEG10, 33 SEG11
49 SEG39
50 SEG40
51 SEG41
52 NC
53 NC
54 NC
55 DIG08
56 DIG07
57 DIG06
58 DIG05
59 DIG04
60 DIG03
61 DIG02
62 DIG01
63 DIG00
64 VP
SEG12 32
SEG13 31
SEG14 30
SEG15 29
SEG16 28
SEG17 27
SEG18 26
SEG19 25
SEG20 24
SEG21 23
SEG22 22
SEG23 21
SEG24 20
SEG25 19
VCC2 18
SEG26 17
1 RESET, 2 CS, 3 SCK, 4 SDATA, 5 VSS, 6 XOUT, 7 XIN, 8 VCC1, 9 SEG34, 10 SEG33, 11 SEG32, 12 SEG31, 13 SEG30, 14 SEG29, 15 SEG28, 16 SEG27
SEG19 SEG20 SEG21 SEG22 SEG23 SEG24 SEG25 N_SW5V SEG26
C7528 0.1
C7503 6.3V100
Q7509
Q7505
R7543 10K
R7518 10K
R7544 68K
R7524 68K
Q7502
Q7501
R7504 10K
R7502 10K
R7503 68K
R7501 68K
C7657 0.1
C7654 0.01
R7505 27K
C7525 100P
C7526 0.1
Q7501,Q7502,Q7505,Q7509
2SD0601A0L
FL DISPLAY DRIVE
C7510 1
VP FL_RESET FL_CS IR_CLK IR_DATA N_SW5V SEG33 SEG32 SEG31 SEG30 SEG29 SEG28 SEG27
CL7514
Q7508
2SD1819A0L
SWITCH
LB7507
ERJ3GEY0R00V
CVIN1
JC_REG5V
L7501
G0C220JA0019
R7523 15K
K7512 0
C7569 0.1
R7519 1K
Q7508
R7521 1.5K
C7565 4.7
R7516 0
LB7508
ERJ3GEY0R00V
SYNCIN
SVREF
Q7507
2SB0709A0L
SYNC SWITCH
Q7507
R7520 10K
C7566 0.1
R7522 5.6K
C7567 0.1
CL7513
N_SW5V SLICER_VIDEO SYNC_IN
Y1_IN C1_IN VIDEO1_IN C/S_DET1 L2_IN_L L2_IN_R IN3(R) KEYIN3(L) IN2(R) KEYIN2(L) N_SW5V IR POW_LED TIME_WARP
Y1_IN C1_IN VIDEO1_IN C/S_DET1 L2_IN_L L2_IN_R IN3(R) KEYIN3(L) IN2(R) KEYIN2(L) N_SW5V IR POW_LED TIME_WARP
㉒ ㉑ ⑳ ⑲ ⑱ ⑰ ⑯ ⑮ ⑭ ⑬ ⑫ ⑪ ⑩ ⑨ ⑧ ⑦ ⑥ ⑤ ④ ③ ② ①
PS7501

TO **E**
PANEL_L CIRCUIT
(PP7501) ON SCHEMATIC
DIAGRAM - 49

# SCHEMATIC DIAGRAM - 24

—— : +B SIGNAL LINE   – – : -B SIGNAL LINE   ⇨ : MAIN SIGNAL LINE

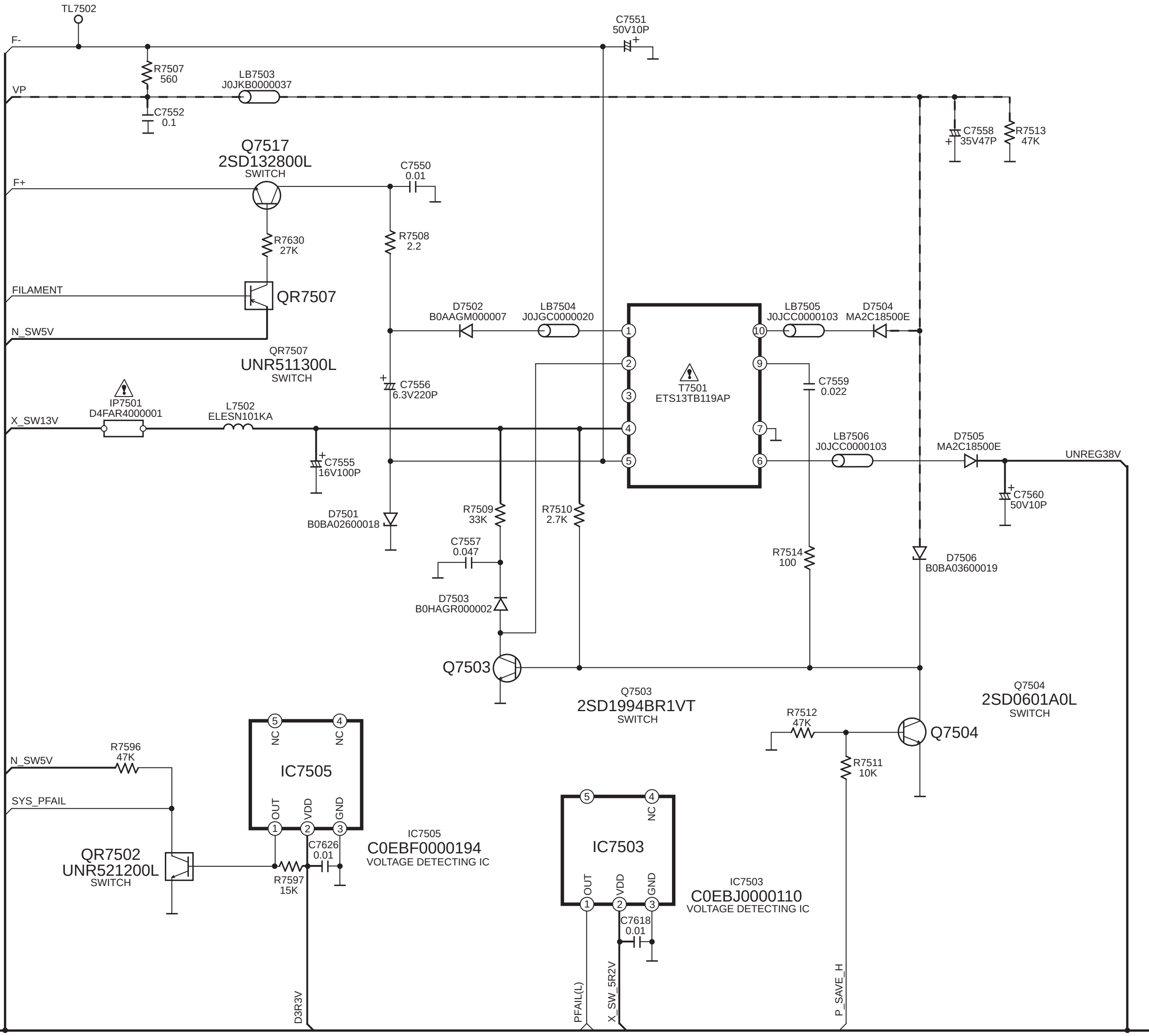
## B MAIN 1 CIRCUIT


IC7501
C2CBJG000423
MASK MICROPROCESSOR
1 TBUS_CLK
2 IR(REMCON)
3 NC/J_CLK
4 FL_TLK
5 FL_RD
6 FL_CLK
7 BYTE
8 CNVSS
9 XCIN32768HZ
10 XCOUT
11 XRESET
12 XOUT
13 VSS
14 XIN10MHZ
15 VCC
16 XNMI
17 XMPREQ
18 NC(G)
19 SLICEON
20 XTMUTE
21 125HZ
22 NC(O)
23 FAN_PWH_OUT
24 NC(O)
25 TV_ANT_POW(L)/EPG_SEL_1
26 EPG_SEL_0
27 EPG_POFF_L
28 NC(O)
29 NC(O)
30 VSS2
31 LP2FSC
32 LP3FSC
33 LP4FSC
34 VDD2
35 TEST1
36 MI
37 SLICEON_OUT
38 UARTP2G
39 UARTG2P
40 XFWE
41 AUDIO_CS
42 AUDIO_CS_OUT
43 AUDIO_CS_IN
44 AUDIO_CLK
45 TEST2(H)
46 NC(O)
47 NET_LED1
48 NET_LED2
49 FILAMENT_ON(L)
50 NC(O)
51 NC(O)
52 NC(O)
53 NC(6V)
54 NET_BUS_REQ
55 HIFRDY
56 P_SAVE_L
57 NC(O)
58 P_SAVE_H
59 SYNC_DET
60 RT_UART
61 SW_UART
62 NC(G)
63 NC(G)
64 FAN_LOCK
65 LED_R
66 NC(G)
67 FM/AM_SEL_LED
68 AUX_SEL_LEF
69 VCC
70 DVD_SEL_LED
71 VSS
72 NC(O)
73 HDD_SEL_LED
74 TIME_WARP_LED
75 HDD_PFAIL(L)
76 DVD_LED
77 POWER_LED
78 HDD_LED
79 LED_L
80 PFAIL(L)
81 SYS_PFAIL(H)
82 XINTM
83 IR_BUSY
84 FL_RESET
85 IR_CS
86 DR_P_ON(H)
87 FL_CS
88 DI_P_ON(H)
89 DC_P_ON(H)
90 EPF_ON(H)
91 NET_P_ON(H)
92 HIFEBL
93 XSH_RES
94 XINTPOUT
95 XINTMOUT
96 KEYIN1
97 KEYIN2
98 KEYINT
99 L1_SWIDE
100 BS_LEVEL
101 DC_L_CH
102 DC_R_CH
103 AVSS
104 KEYIN3
105 VREF
106 AVCC
107 TBUS_RXD
108 START
109 SYNCIN
110 SVREF
111 VSS1
112 VDD3
113 CVIN1
114 VSS3
115 FSCIN
116 TBUS_TXD
IR
CVIN1
SVREF
SYNCIN
N_SW5V
KEYIN3(L)
DC1
DC2
L123_SWIDE
KEYIN2(L)
KEYIN1
XINTM
XINTP
XSH_RES
HIFEBL
NET_P_ON_H
EPG_ON_H
DC_P_ON(H)
P_OFF_L
N_SW5V
CL7510
CL7507
CL7509
R7589 8.2K
C7611 0.01
R7636 100
K7507 0
R7637 100
R7638 100
R7584 47K
R7583 47K
C7613 0.01
C7612 0.01
R7591 8.2K
R7590 8.2K
N_SW5V
VCC
SBMTP
SBPTM
R7532 47K
R7533 47K
L7505 RWDJ05-050
R7534 100
R7535 100
C7581 100P
C7582 100P
C7607 0.1
R7537 100
CL7506
R7531 47K
N_SW5V
SCLK
R7536 100
K7506 0
C7580 100P
C7583 100P
XJCINT
IR_DATA
R7611 100
CL7601
IR_CLK
R7613 100
C7586 22P
X7502 H0A327200026
R7538 4.7k
C7587 15P
R7539 0
VCC
R7540 270K
X7501
C7584 18P
C7585 18P
R7541 0
C7588 4.7
LB7502 ERJ3GEY0R00V
R7542 10K
XMPREQ
N_SW5V
R7530 47K
C7589 0.1
X7501 H0D100500016
XMUTE
TL7503
FAN_PWH_OUT
N_SW5V
R7599 47K
FL_CS
R7569 100
DR_P_ON_H
IR_CS
FL_RESET
IR_BUSY
XINTM
SYS_PFAIL
PFAIL(L)
C7620 0.01
C7650 0.01
R7595 47K
R7545 220
P_FAIL_L
N_SW5V
POW_LED
CL7503
R7564 100
HDD_PFAIL
R7563 100
TIME_WARP
R7562 100
HDD_SEL_LED
C7653 0.1
R7626 100
DVD_SEL_LED
VCC
R7627 100
AUX_SEL_LED
C7604 0.1
R7628 100
FM_SEL_LED
FAN_LOCK
FAN_PWH_OUT
B+IN
R7585 22K
R7600 10K
N_SW5V
SYNC_DET
K7509 0
CL7512
CL7511
CL7508
C7597 0.01
R7549 510
C7599 0.1
R7550 2K
C7601 0.1
R7551 2K
C7652 1
TL7504
R7556 100
C7596 47P
C7598 47P
C7600 47P
C7609 10P
C7610 10P
R7548 10K
R7547 330
R7552 330
R7553 330
R7554 330
R7570 100K
R7557 100
R7588 4.7K
LB7501 J0JCC0000060
C7595 0.1
CL7501
CL7502
R7633 22K
R7561 3.9K
C7602 0.01
K7502 0
K7503 0
C1501 1
C1502 1
D1504 B0ACCK000005
P_SW
VCC
N_SW5V
UARTP2G
UARTG2P
N_SW5V
AUDIO_CS
AUDIO_S_OUT
AUDIO_S_IN
AUDIO_CLK
FILAMENT
N_SW5V
BOOT_REQ
HIFRDY
P_SAVE_L
P_SAVE_H
P_FAIL_L
IR
AUDIO_CS
AUDIO_CLK
AUDIO_S_IN
JOGA
JOGB
AM_BP
+12V
-12V
+6V
P_FAIL_L
IR
P_SW
AUDIO_CS
AUDIO_CLK
AUDIO_S_OUT
AUDIO_S_IN
JOGA
JOGB
AM_BP
+12V
-12V
+6V
P801
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
TO C AUDIO CIRCUIT (CN801) ON SCHEMATIC DIAGRAM - 45
ADC_R
ADC_L
MIXROUT_DM
MIXLOUT_DM
ADC_R
ADC_L
INV_LINE_MUTE
LINE_MUTE
P402
1 2 3 4 5 6 7 8 9 10 11 12
TO C AUDIO CIRCUIT (CN402) ON SCHEMATIC DIAGRAM - 37
FANDCOUT
FANL_LOCK
FANDCOUT
FANLOCK
P7503
1 2 3
TO FAN UNIT

# SCHEMATIC DIAGRAM - 25

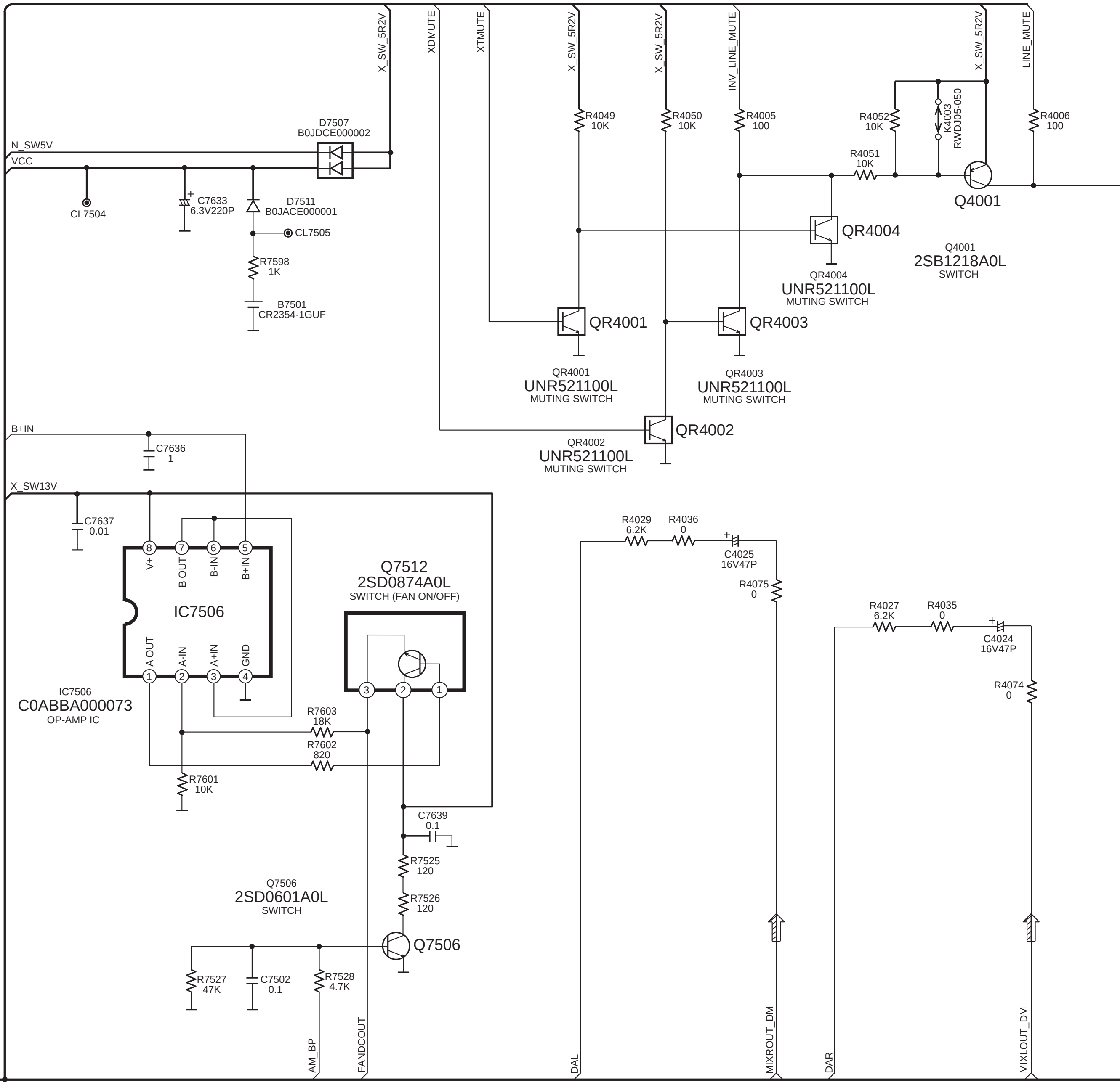
—— : +B SIGNAL LINE    – – : -B SIGNAL LINE

## B MAIN 1 CIRCUIT


TL7502
F-
C7551
50V10P
R7507
560
LB7503
J0JKB0000037
VP
C7552
0.1
C7558
35V47P
R7513
47K
Q7517
2SD132800L
SWITCH
C7550
0.01
F+
R7630
27K
R7508
2.2
FILAMENT
QR7507
N_SW5V
QR7507
UNR511300L
SWITCH
D7502
B0AAGM000007
LB7504
J0JGC0000020
LB7505
J0JCC0000103
D7504
MA2C18500E
T7501
ETS13TB119AP
C7556
6.3V220P
C7559
0.022
IP7501
D4FAR4000001
L7502
ELESN101KA
X_SW13V
C7555
16V100P
LB7506
J0JCC0000103
D7505
MA2C18500E
UNREG38V
C7560
50V10P
D7501
B0BA02600018
R7509
33K
R7510
2.7K
C7557
0.047
R7514
100
D7506
B0BA03600019
D7503
B0HAGR000002
Q7503
Q7503
2SD1994BR1VT
SWITCH
Q7504
2SD0601A0L
SWITCH
R7512
47K
Q7504
R7511
10K
N_SW5V
R7596
47K
SYS_PFAIL
IC7505
NC
NC
OUT
VDD
GND
C7626
0.01
QR7502
UNR521200L
SWITCH
R7597
15K
IC7505
C0EBF0000194
VOLTAGE DETECTING IC
IC7503
NC
OUT
VDD
GND
C7618
0.01
IC7503
C0EBJ0000110
VOLTAGE DETECTING IC
D3R3V
PFAIL(L)
X_SW_5R2V
P_SAVE_H

## B MAIN 1 CIRCUIT

—— : +B SIGNAL LINE  ⇨ : MAIN SIGNAL LINE

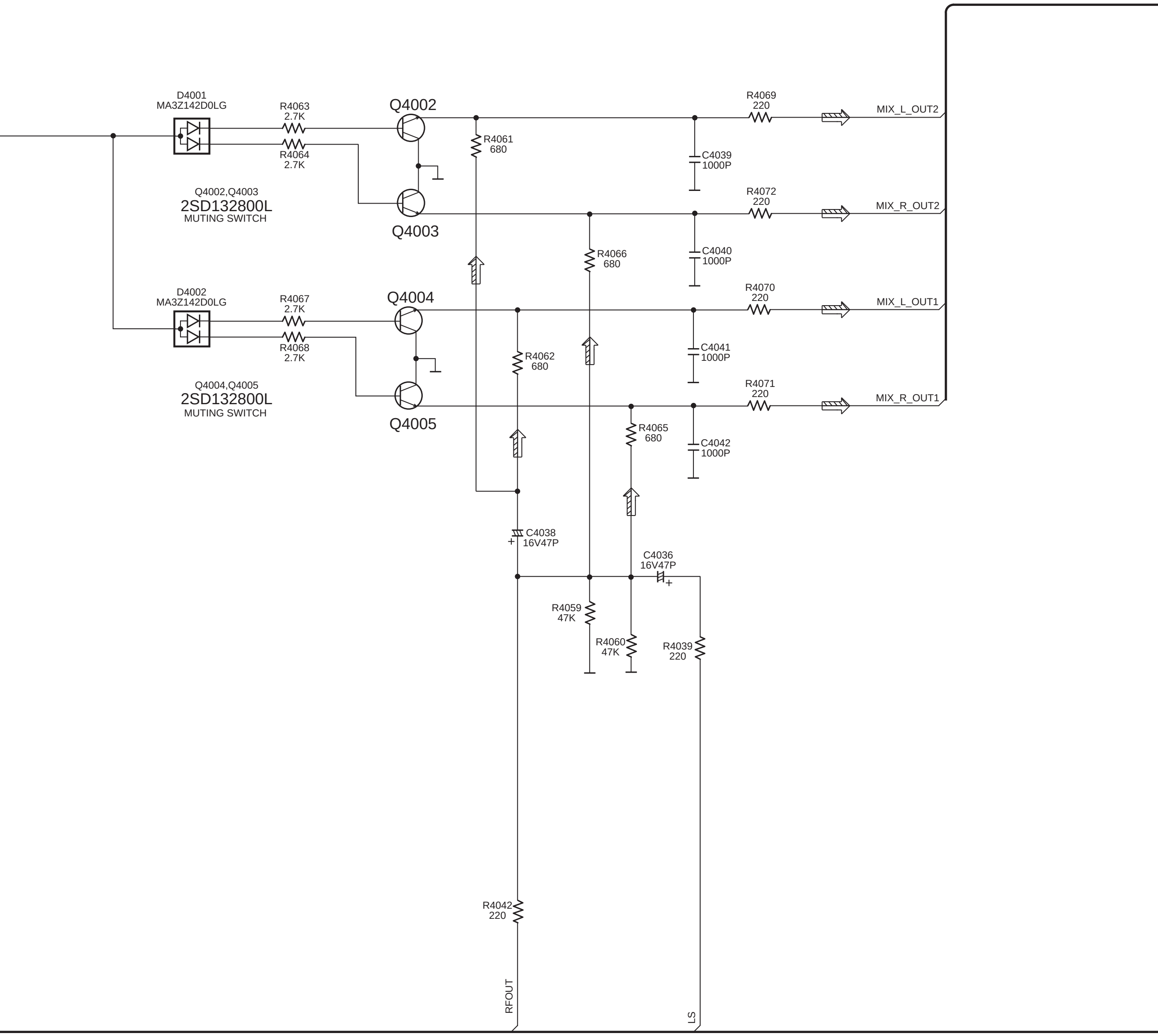

X_SW_5R2V
XDMUTE
XTMUTE
X_SW_5R2V
X_SW_5R2V
INV_LINE_MUTE
X_SW_5R2V
LINE_MUTE
N_SW5V
VCC
D7507
B0JDCE000002
CL7504
C7633
6.3V220P
D7511
B0JACE000001
CL7505
R7598
1K
B7501
CR2354-1GUF
R4049
10K
R4050
10K
R4005
100
R4052
10K
K4003
RWDJ05-050
R4006
100
R4051
10K
Q4001
QR4004
Q4001
2SB1218A0L
SWITCH
QR4004
UNR521100L
MUTING SWITCH
QR4001
QR4003
QR4001
UNR521100L
MUTING SWITCH
QR4003
UNR521100L
MUTING SWITCH
QR4002
QR4002
UNR521100L
MUTING SWITCH
B+IN
C7636
1
X_SW13V
C7637
0.01
V+
B OUT
B-IN
B+IN
IC7506
A OUT
A-IN
A+IN
GND
IC7506
C0ABBA000073
OP-AMP IC
Q7512
2SD0874A0L
SWITCH (FAN ON/OFF)
R7603
18K
R7602
820
R7601
10K
C7639
0.1
R7525
120
R7526
120
Q7506
2SD0601A0L
SWITCH
Q7506
R7527
47K
C7502
0.1
R7528
4.7K
AM_BP
FANDCOUT
R4029
6.2K
R4036
0
C4025
16V47P
R4075
0
R4027
6.2K
R4035
0
C4024
16V47P
R4074
0
DAL
MIXROUT_DM
DAR
MIXLOUT_DM

# SCHEMATIC DIAGRAM - 27

—— : +B SIGNAL LINE

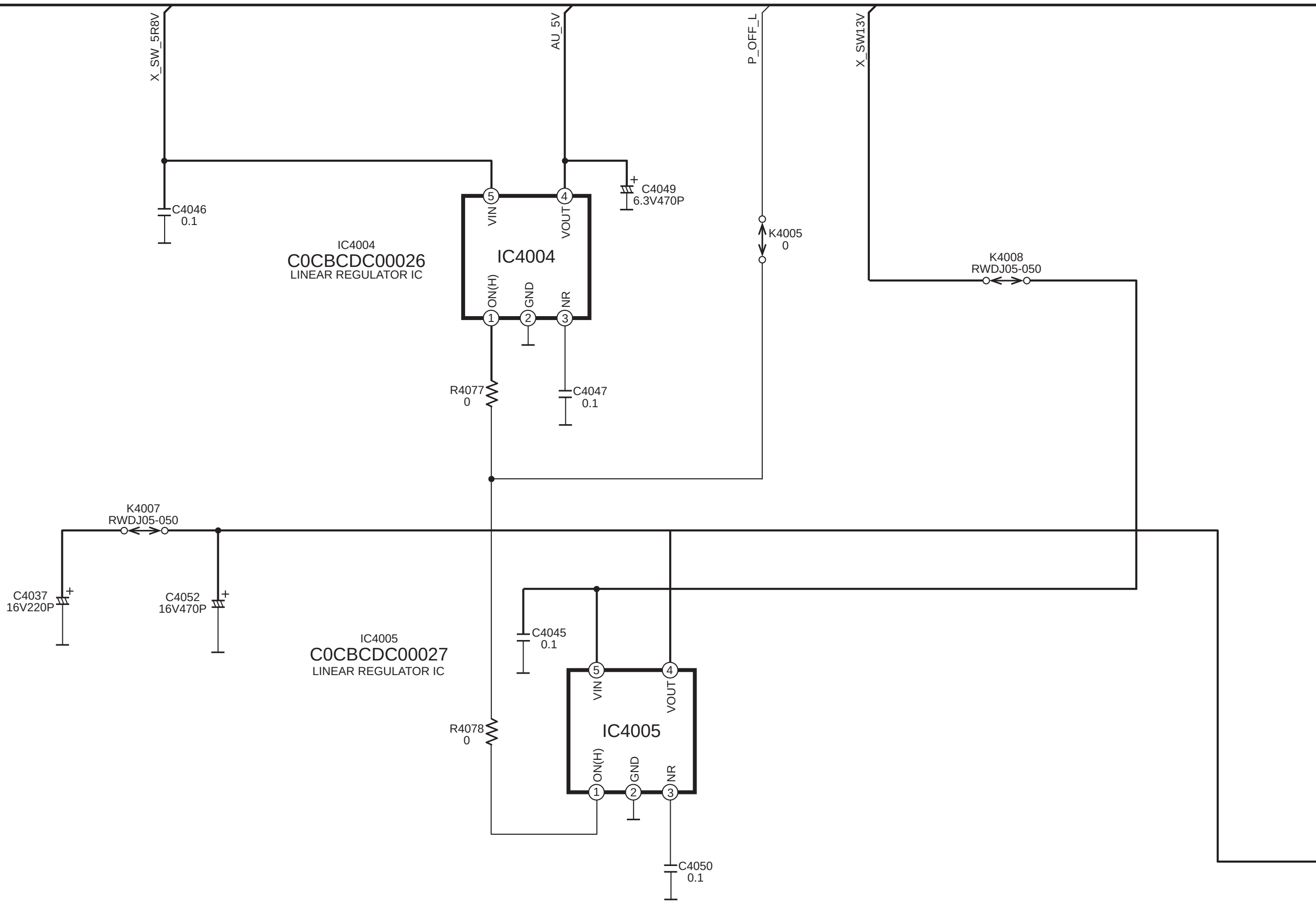
⇨ : MAIN SIGNAL LINE

## B MAIN 1 CIRCUIT


D4001
MA3Z142D0LG
R4063
2.7K
R4064
2.7K
Q4002
Q4003
Q4002,Q4003
2SD132800L
MUTING SWITCH
R4061
680
R4069
220
MIX_L_OUT2
C4039
1000P
R4072
220
MIX_R_OUT2
R4066
680
C4040
1000P
D4002
MA3Z142D0LG
R4067
2.7K
R4068
2.7K
Q4004
Q4005
Q4004,Q4005
2SD132800L
MUTING SWITCH
R4070
220
MIX_L_OUT1
R4062
680
C4041
1000P
R4071
220
MIX_R_OUT1
R4065
680
C4042
1000P
C4038
16V47P
C4036
16V47P
R4059
47K
R4060
47K
R4039
220
R4042
220
RFOUT
LS

—— : +B SIGNAL LINE

## B MAIN 1 CIRCUIT

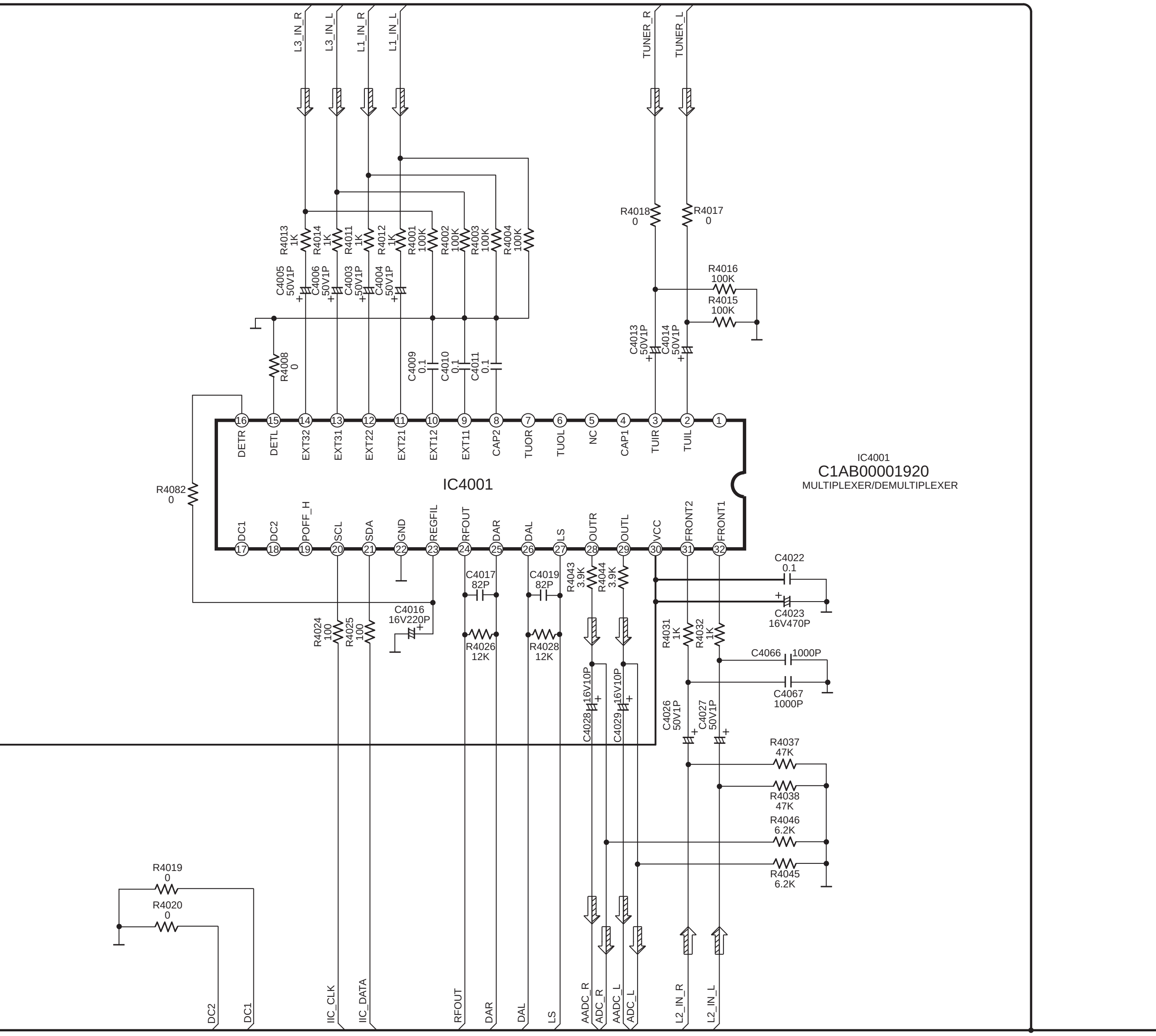

X_SW_5R8V
AU_5V
P_OFF_L
X_SW13V
C4046
0.1
C4049
6.3V470P
IC4004
C0CBCDC00026
LINEAR REGULATOR IC
IC4004
VIN
VOUT
ON(H)
GND
NR
5
4
1
2
3
K4005
0
K4008
RWDJ05-050
R4077
0
C4047
0.1
K4007
RWDJ05-050
C4037
16V220P
C4052
16V470P
C4045
0.1
IC4005
C0CBCDC00027
LINEAR REGULATOR IC
IC4005
VIN
VOUT
ON(H)
GND
NR
5
4
1
2
3
R4078
0
C4050
0.1

# SCHEMATIC DIAGRAM - 29

—— : +B SIGNAL LINE

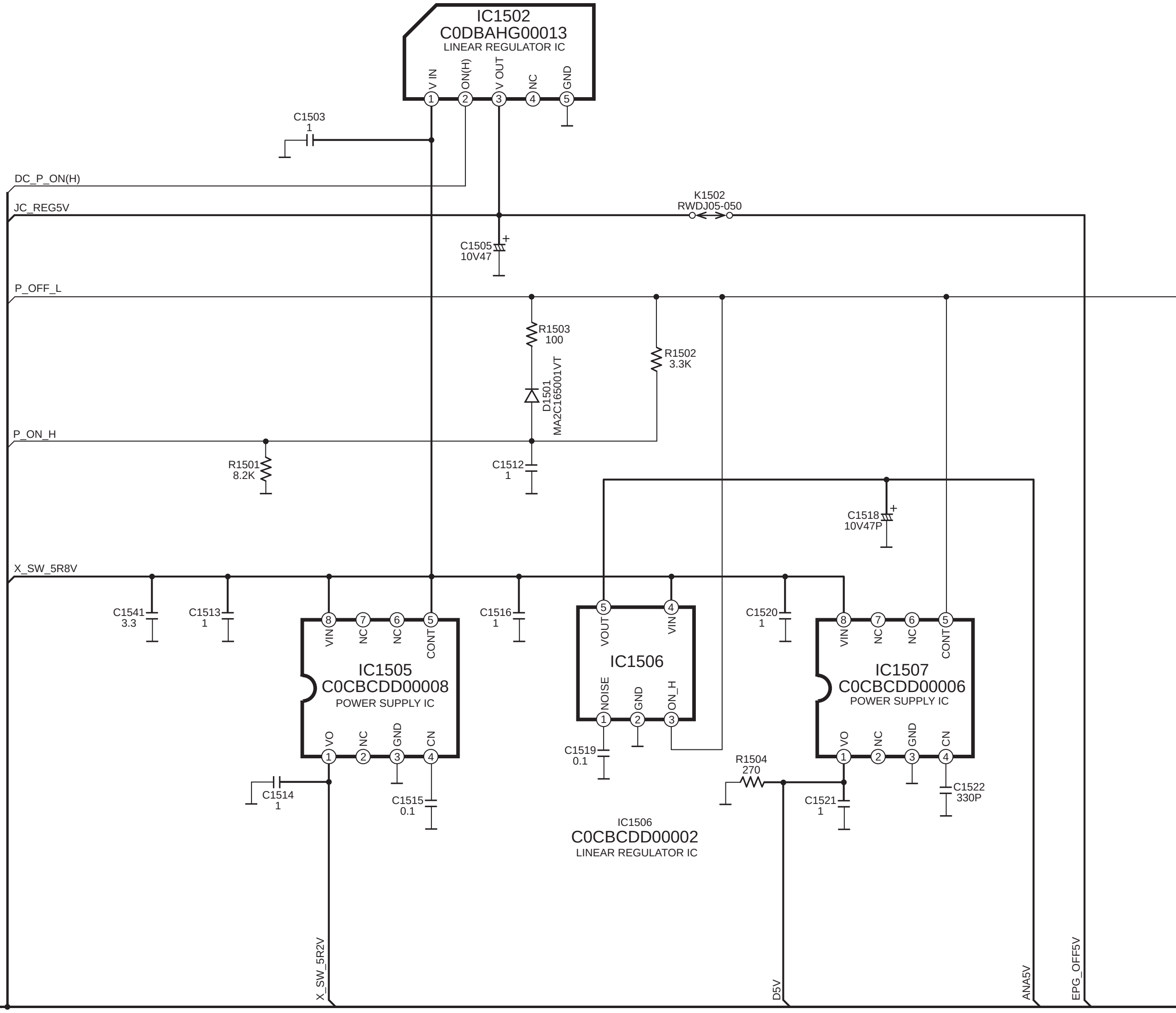
⇨ : MAIN SIGNAL LINE

## B MAIN 1 CIRCUIT


L3_IN_R
L3_IN_L
L1_IN_R
L1_IN_L
TUNER_R
TUNER_L
R4018
0
R4017
0
R4013
1K
R4014
1K
R4011
1K
R4012
1K
R4001
100K
R4002
100K
R4003
100K
R4004
100K
C4005
50V1P
C4006
50V1P
C4003
50V1P
C4004
50V1P
R4016
100K
R4015
100K
C4013
50V1P
C4014
50V1P
R4008
0
C4009
0.1
C4010
0.1
C4011
0.1
R4082
0
DETR
DETL
EXT32
EXT31
EXT22
EXT21
EXT12
EXT11
CAP2
TUOR
TUOL
NC
CAP1
TUIR
TUIL
IC4001
IC4001
C1AB00001920
MULTIPLEXER/DEMULTIPLEXER
DC1
DC2
POFF_H
SCL
SDA
GND
REGFIL
RFOUT
DAR
DAL
LS
OUTR
OUTL
VCC
FRONT2
FRONT1
C4022
0.1
C4023
16V470P
C4017
82P
C4019
82P
R4043
3.9K
R4044
3.9K
C4016
16V220P
R4024
100
R4025
100
R4026
12K
R4028
12K
R4031
1K
R4032
1K
C4066
1000P
C4067
1000P
C4028
16V10P
C4029
16V10P
C4026
50V1P
C4027
50V1P
R4037
47K
R4038
47K
R4046
6.2K
R4045
6.2K
R4019
0
R4020
0
DC2
DC1
IIC_CLK
IIC_DATA
RFOUT
DAR
DAL
LS
AADC_R
ADC_R
AADC_L
ADC_L
L2_IN_R
L2_IN_L

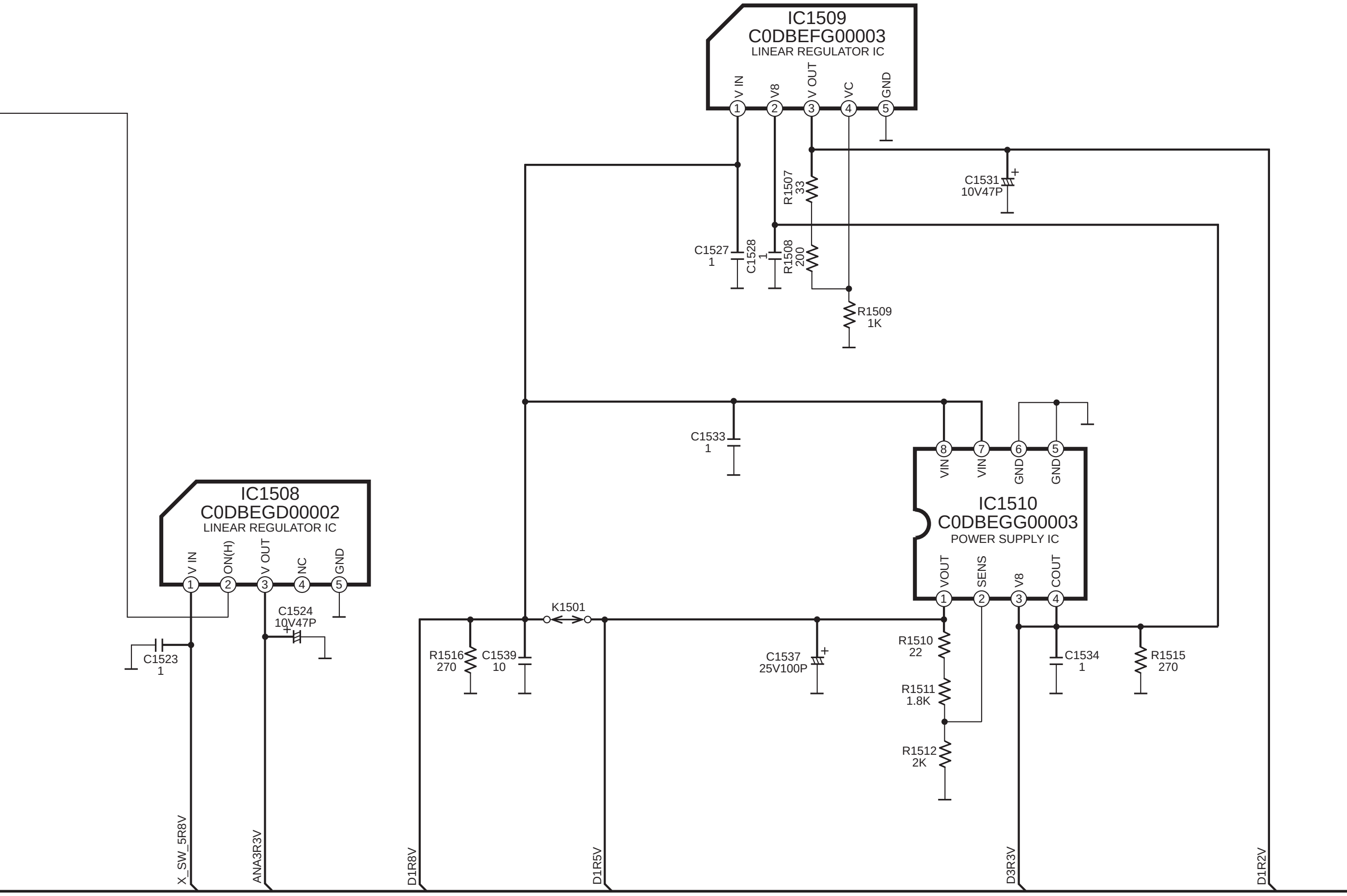
## B MAIN 1 CIRCUIT

—— : +B SIGNAL LINE


IC1502
C0DBAHG00013
LINEAR REGULATOR IC
V IN
ON(H)
V OUT
NC
GND
1
2
3
4
5
C1503
1
DC_P_ON(H)
JC_REG5V
K1502
RWDJ05-050
C1505
10V47
P_OFF_L
R1503
100
R1502
3.3K
D1501
MA2C165001VT
P_ON_H
R1501
8.2K
C1512
1
C1518
10V47P
X_SW_5R8V
C1541
3.3
C1513
1
C1516
1
C1520
1
IC1505
C0CBCDD00008
POWER SUPPLY IC
VIN
NC
NC
CONT
VO
NC
GND
CN
8
7
6
5
1
2
3
4
IC1506
VOUT
VIN
NOISE
GND
ON_H
5
4
1
2
3
IC1507
C0CBCDD00006
POWER SUPPLY IC
VIN
NC
NC
CONT
VO
NC
GND
CN
8
7
6
5
1
2
3
4
C1514
1
C1515
0.1
C1519
0.1
R1504
270
C1521
1
C1522
330P
IC1506
C0CBCDD00002
LINEAR REGULATOR IC
X_SW_5R2V
D5V
ANA5V
EPG_OFF5V

—— : +B SIGNAL LINE

## B MAIN 1 CIRCUIT

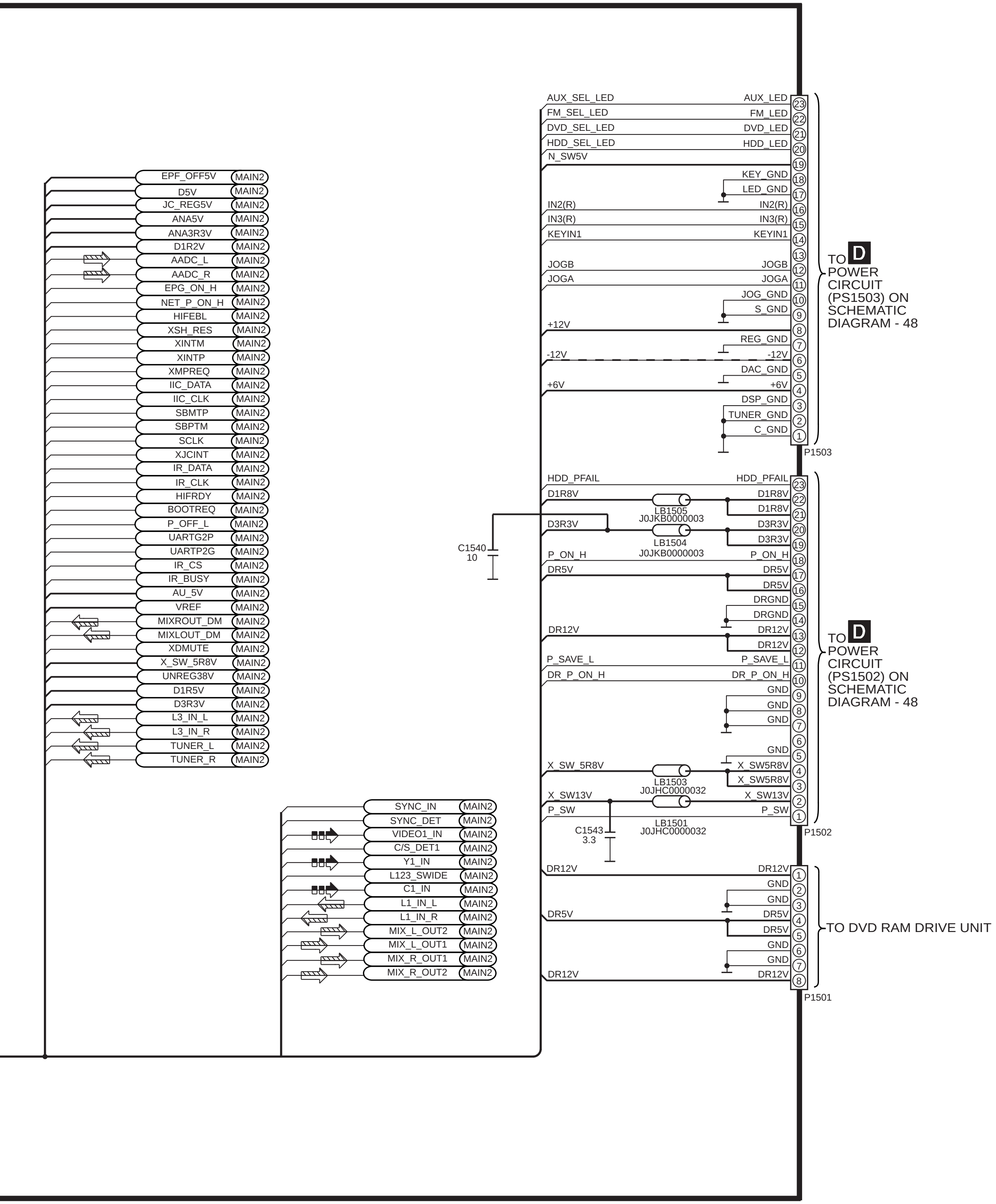


IC1509
C0DBEFG00003
LINEAR REGULATOR IC
V IN
V8
V OUT
VC
GND
1
2
3
4
5
C1531
10V47P
R1507
33
C1527
1
C1528
1
R1508
200
R1509
1K
C1533
1
IC1510
C0DBEGG00003
POWER SUPPLY IC
8
7
6
5
VIN
VIN
GND
GND
VOUT
SENS
V8
COUT
1
2
3
4
IC1508
C0DBEGD00002
LINEAR REGULATOR IC
V IN
ON(H)
V OUT
NC
GND
1
2
3
4
5
C1524
10V47P
C1523
1
K1501
R1516
270
C1539
10
C1537
25V100P
R1510
22
R1511
1.8K
R1512
2K
C1534
1
R1515
270
X_SW_5R8V
ANA3R3V
D1R8V
D1R5V
D3R3V
D1R2V

# SCHEMATIC DIAGRAM - 32

—— : +B SIGNAL LINE
– – : -B SIGNAL LINE
⇨ : MAIN SIGNAL LINE
▪▪▪➡ : VIDEO SIGNAL LINE

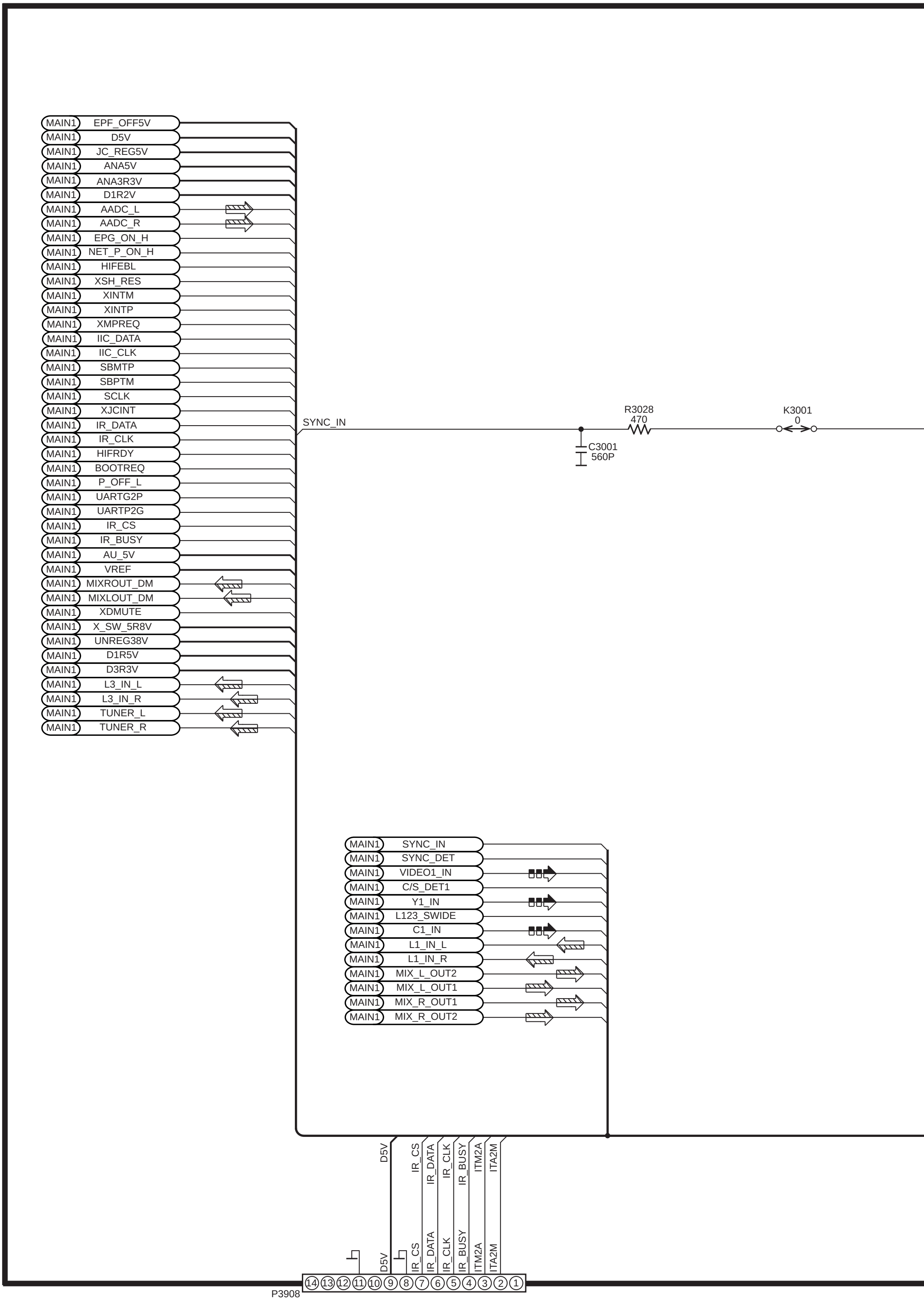
## B MAIN 1 CIRCUIT


EPF_OFF5V MAIN2
D5V MAIN2
JC_REG5V MAIN2
ANA5V MAIN2
ANA3R3V MAIN2
D1R2V MAIN2
AADC_L MAIN2
AADC_R MAIN2
EPG_ON_H MAIN2
NET_P_ON_H MAIN2
HIFEBL MAIN2
XSH_RES MAIN2
XINTM MAIN2
XINTP MAIN2
XMPREQ MAIN2
IIC_DATA MAIN2
IIC_CLK MAIN2
SBMTP MAIN2
SBPTM MAIN2
SCLK MAIN2
XJCINT MAIN2
IR_DATA MAIN2
IR_CLK MAIN2
HIFRDY MAIN2
BOOTREQ MAIN2
P_OFF_L MAIN2
UARTG2P MAIN2
UARTP2G MAIN2
IR_CS MAIN2
IR_BUSY MAIN2
AU_5V MAIN2
VREF MAIN2
MIXROUT_DM MAIN2
MIXLOUT_DM MAIN2
XDMUTE MAIN2
X_SW_5R8V MAIN2
UNREG38V MAIN2
D1R5V MAIN2
D3R3V MAIN2
L3_IN_L MAIN2
L3_IN_R MAIN2
TUNER_L MAIN2
TUNER_R MAIN2
SYNC_IN MAIN2
SYNC_DET MAIN2
VIDEO1_IN MAIN2
C/S_DET1 MAIN2
Y1_IN MAIN2
L123_SWIDE MAIN2
C1_IN MAIN2
L1_IN_L MAIN2
L1_IN_R MAIN2
MIX_L_OUT2 MAIN2
MIX_L_OUT1 MAIN2
MIX_R_OUT1 MAIN2
MIX_R_OUT2 MAIN2
AUX_SEL_LED
FM_SEL_LED
DVD_SEL_LED
HDD_SEL_LED
N_SW5V
IN2(R)
IN3(R)
KEYIN1
JOGB
JOGA
+12V
-12V
+6V
AUX_LED ㉓
FM_LED ㉒
DVD_LED ㉑
HDD_LED ⑳
⑲
KEY_GND ⑱
LED_GND ⑰
IN2(R) ⑯
IN3(R) ⑮
KEYIN1 ⑭
⑬
JOGB ⑫
JOGA ⑪
JOG_GND ⑩
S_GND ⑨
⑧
REG_GND ⑦
-12V ⑥
DAC_GND ⑤
+6V ④
DSP_GND ③
TUNER_GND ②
C_GND ①
P1503
TO D POWER CIRCUIT (PS1503) ON SCHEMATIC DIAGRAM - 48
HDD_PFAIL
D1R8V
D3R3V
P_ON_H
DR5V
DR12V
P_SAVE_L
DR_P_ON_H
X_SW_5R8V
X_SW13V
P_SW
C1540 10
LB1505 J0JKB0000003
LB1504 J0JKB0000003
LB1503 J0JHC0000032
LB1501 J0JHC0000032
C1543 3.3
HDD_PFAIL ㉓
D1R8V ㉒
D1R8V ㉑
D3R3V ⑳
D3R3V ⑲
P_ON_H ⑱
DR5V ⑰
DR5V ⑯
DRGND ⑮
DRGND ⑭
DR12V ⑬
DR12V ⑫
P_SAVE_L ⑪
DR_P_ON_H ⑩
GND ⑨
GND ⑧
GND ⑦
⑥
GND ⑤
X_SW5R8V ④
X_SW5R8V ③
X_SW13V ②
P_SW ①
P1502
TO D POWER CIRCUIT (PS1502) ON SCHEMATIC DIAGRAM - 48
DR12V
DR5V
DR12V
DR12V ①
GND ②
GND ③
DR5V ④
DR5V ⑤
GND ⑥
GND ⑦
DR12V ⑧
P1501
TO DVD RAM DRIVE UNIT

# SCHEMATIC DIAGRAM - 33

—— : +B SIGNAL LINE ⇨ : MAIN SIGNAL LINE ▪▪▪➡ : VIDEO SIGNAL LINE

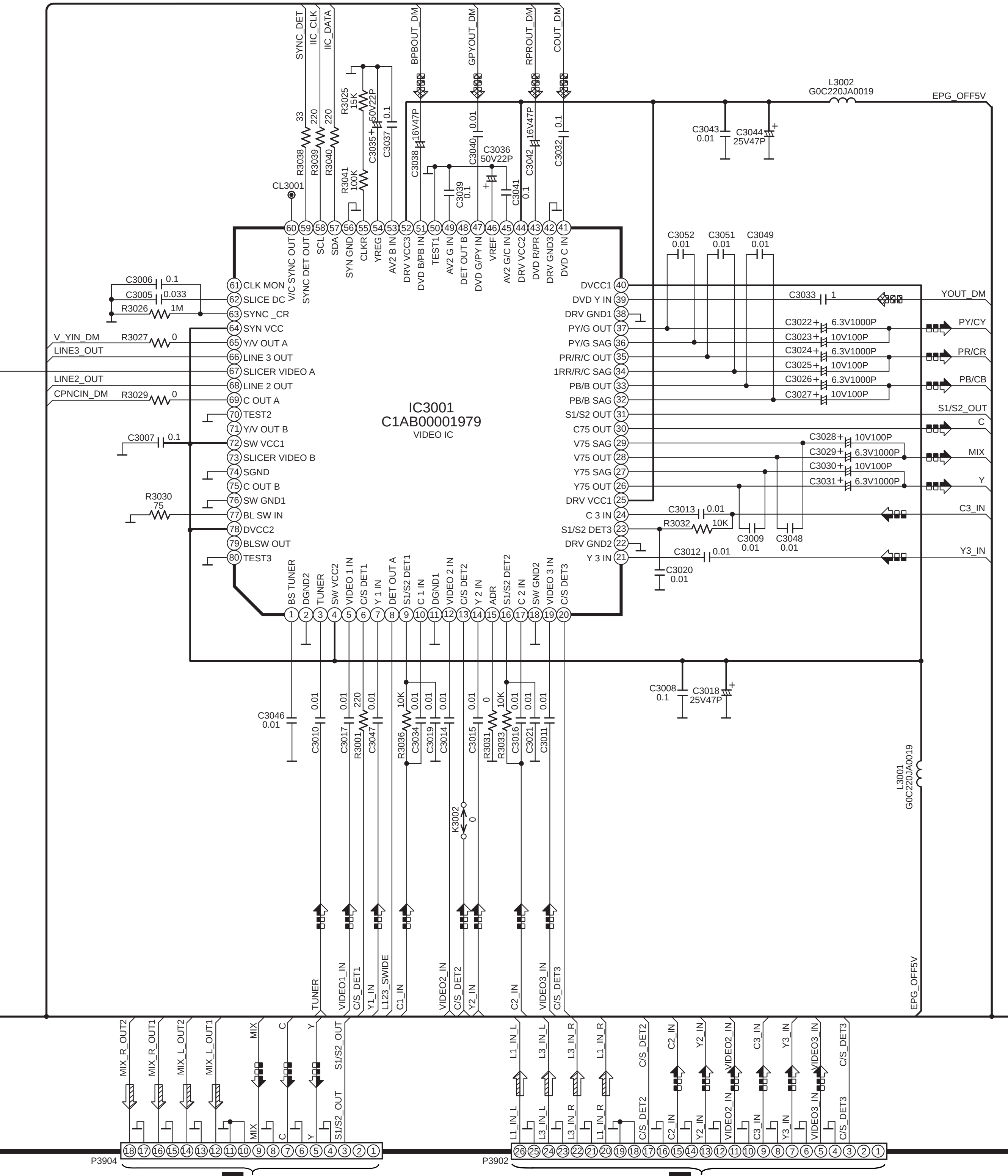
## B MAIN 2 CIRCUIT


MAIN1 EPF_OFF5V
MAIN1 D5V
MAIN1 JC_REG5V
MAIN1 ANA5V
MAIN1 ANA3R3V
MAIN1 D1R2V
MAIN1 AADC_L
MAIN1 AADC_R
MAIN1 EPG_ON_H
MAIN1 NET_P_ON_H
MAIN1 HIFEBL
MAIN1 XSH_RES
MAIN1 XINTM
MAIN1 XINTP
MAIN1 XMPREQ
MAIN1 IIC_DATA
MAIN1 IIC_CLK
MAIN1 SBMTP
MAIN1 SBPTM
MAIN1 SCLK
MAIN1 XJCINT
MAIN1 IR_DATA
MAIN1 IR_CLK
MAIN1 HIFRDY
MAIN1 BOOTREQ
MAIN1 P_OFF_L
MAIN1 UARTG2P
MAIN1 UARTP2G
MAIN1 IR_CS
MAIN1 IR_BUSY
MAIN1 AU_5V
MAIN1 VREF
MAIN1 MIXROUT_DM
MAIN1 MIXLOUT_DM
MAIN1 XDMUTE
MAIN1 X_SW_5R8V
MAIN1 UNREG38V
MAIN1 D1R5V
MAIN1 D3R3V
MAIN1 L3_IN_L
MAIN1 L3_IN_R
MAIN1 TUNER_L
MAIN1 TUNER_R
SYNC_IN
R3028
470
K3001
0
C3001
560P
MAIN1 SYNC_IN
MAIN1 SYNC_DET
MAIN1 VIDEO1_IN
MAIN1 C/S_DET1
MAIN1 Y1_IN
MAIN1 L123_SWIDE
MAIN1 C1_IN
MAIN1 L1_IN_L
MAIN1 L1_IN_R
MAIN1 MIX_L_OUT2
MAIN1 MIX_L_OUT1
MAIN1 MIX_R_OUT1
MAIN1 MIX_R_OUT2
D5V
IR_CS
IR_DATA
IR_CLK
IR_BUSY
ITM2A
ITA2M
D5V
IR_CS
IR_DATA
IR_CLK
IR_BUSY
ITM2A
ITA2M
⑭⑬⑫⑪⑩⑨⑧⑦⑥⑤④③②①
P3908

TO **G**
TERMINAL CIRCUIT
(CN8001) ON SCHEMATIC
DIAGRAM - 53

—— : +B SIGNAL LINE ⇨ : MAIN SIGNAL LINE ⇨ : DVD VIDEO SIGNAL LINE ➡ : VIDEO SIGNAL LINE

## B MAIN 2 CIRCUIT

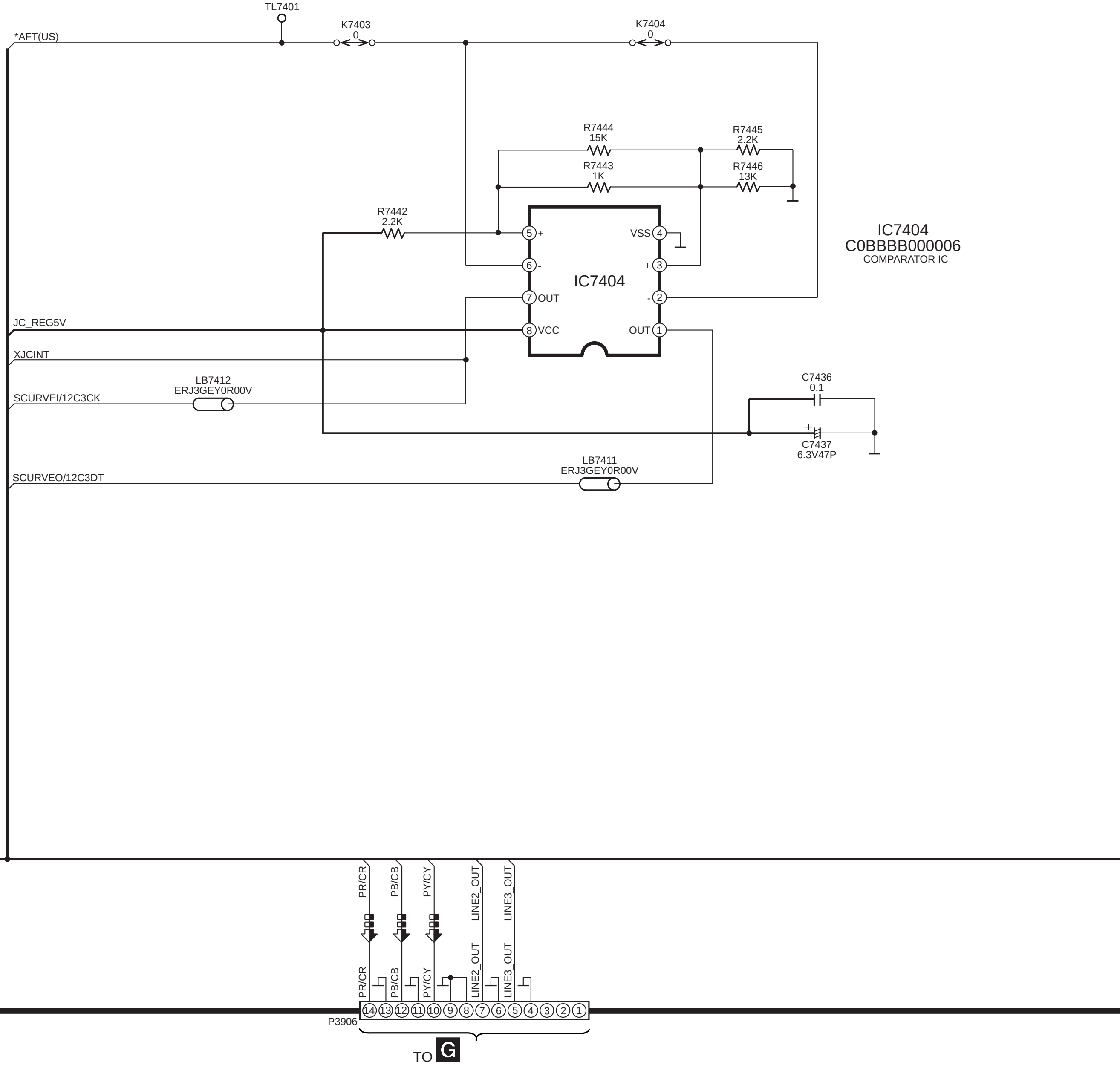

IC3001
C1AB00001979
VIDEO IC
SYNC_DET
IIC_CLK
IIC_DATA
BPBOUT_DM
GPYOUT_DM
RPROUT_DM
COUT_DM
L3002
G0C220JA0019
EPG_OFF5V
C3043 0.01
C3044 25V47P
R3038 33
R3039 220
R3040 220
R3025 15K
C3035 50V22P
C3037 0.1
R3041 100K
C3038 16V47P
C3040 0.01
C3036 50V22P
C3039 0.1
C3041 0.1
C3042 16V47P
C3032 0.1
CL3001
60 V/C SYNC OUT
59 SYNC DET OUT
58 SCL
57 SDA
56 SYN GND
55 CLKR
54 YREG
53 AV2 B IN
52 DRV VCC3
51 DVD B/PB IN
50 TEST1
49 AV2 G IN
48 DET OUT B
47 DVD G/PY IN
46 VREF
45 AV2 G/C IN
44 DRV VCC2
43 DVD R/PR
42 DRV GND3
41 DVD C IN
C3006 0.1
C3005 0.033
R3026 1M
V_YIN_DM
R3027 0
LINE3_OUT
LINE2_OUT
CPNCIN_DM
R3029 0
C3007 0.1
R3030 75
61 CLK MON
62 SLICE DC
63 SYNC _CR
64 SYN VCC
65 Y/V OUT A
66 LINE 3 OUT
67 SLICER VIDEO A
68 LINE 2 OUT
69 C OUT A
70 TEST2
71 Y/V OUT B
72 SW VCC1
73 SLICER VIDEO B
74 SGND
75 C OUT B
76 SW GND1
77 BL SW IN
78 DVCC2
79 BLSW OUT
80 TEST3
C3052 0.01
C3051 0.01
C3049 0.01
40 DVCC1
39 DVD Y IN
38 DRV GND1
37 PY/G OUT
36 PY/G SAG
35 PR/R/C OUT
34 1RR/R/C SAG
33 PB/B OUT
32 PB/B SAG
31 S1/S2 OUT
30 C75 OUT
29 V75 SAG
28 V75 OUT
27 Y75 SAG
26 Y75 OUT
25 DRV VCC1
24 C 3 IN
23 S1/S2 DET3
22 DRV GND2
21 Y 3 IN
C3033 1
YOUT_DM
C3022 6.3V1000P
C3023 10V100P
C3024 6.3V1000P
C3025 10V100P
C3026 6.3V1000P
C3027 10V100P
PY/CY
PR/CR
PB/CB
S1/S2_OUT
C
C3028 10V100P
C3029 6.3V1000P
C3030 10V100P
C3031 6.3V1000P
MIX
Y
C3013 0.01
C3_IN
R3032 10K
C3009 0.01
C3048 0.01
C3012 0.01
Y3_IN
C3020 0.01
1 BS TUNER
2 DGND2
3 TUNER
4 SW VCC2
5 VIDEO 1 IN
6 C/S DET1
7 Y 1 IN
8 DET OUT A
9 S1/S2 DET1
10 C 1 IN
11 DGND1
12 VIDEO 2 IN
13 C/S DET2
14 Y 2 IN
15 ADR
16 S1/S2 DET2
17 C 2 IN
18 SW GND2
19 VIDEO 3 IN
20 C/S DET3
C3008 0.1
C3018 25V47P
C3046 0.01
C3010 0.01
C3017 0.01
R3001 220
C3047 0.01
R3036 10K
C3034 0.01
C3019 0.01
C3014 0.01
C3015 0.01
R3031 0
R3033 10K
C3016 0.01
C3021 0.01
C3011 0.01
L3001
G0C220JA0019
K3002 0
TUNER
VIDEO1_IN
C/S_DET1
Y1_IN
L123_SWIDE
C1_IN
VIDEO2_IN
C/S_DET2
Y2_IN
C2_IN
VIDEO3_IN
C/S_DET3
EPG_OFF5V
MIX_R_OUT2
MIX_R_OUT1
MIX_L_OUT2
MIX_L_OUT1
MIX
C
Y
S1/S2_OUT
L1_IN_L
L3_IN_L
L3_IN_R
L1_IN_R
C/S_DET2
C2_IN
Y2_IN
VIDEO2_IN
C3_IN
Y3_IN
VIDEO3_IN
C/S_DET3
P3904
18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1
P3902
26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

TO G
TERMINAL CIRCUIT
(CN3904) ON SCHEMATIC
DIAGRAM - 52

TO G
TERMINAL CIRCUIT
(CN3902) ON SCHEMATIC
DIAGRAM - 51

—— : +B SIGNAL LINE ▭▭▭➪ : VIDEO SIGNAL LINE

## B MAIN 2 CIRCUIT

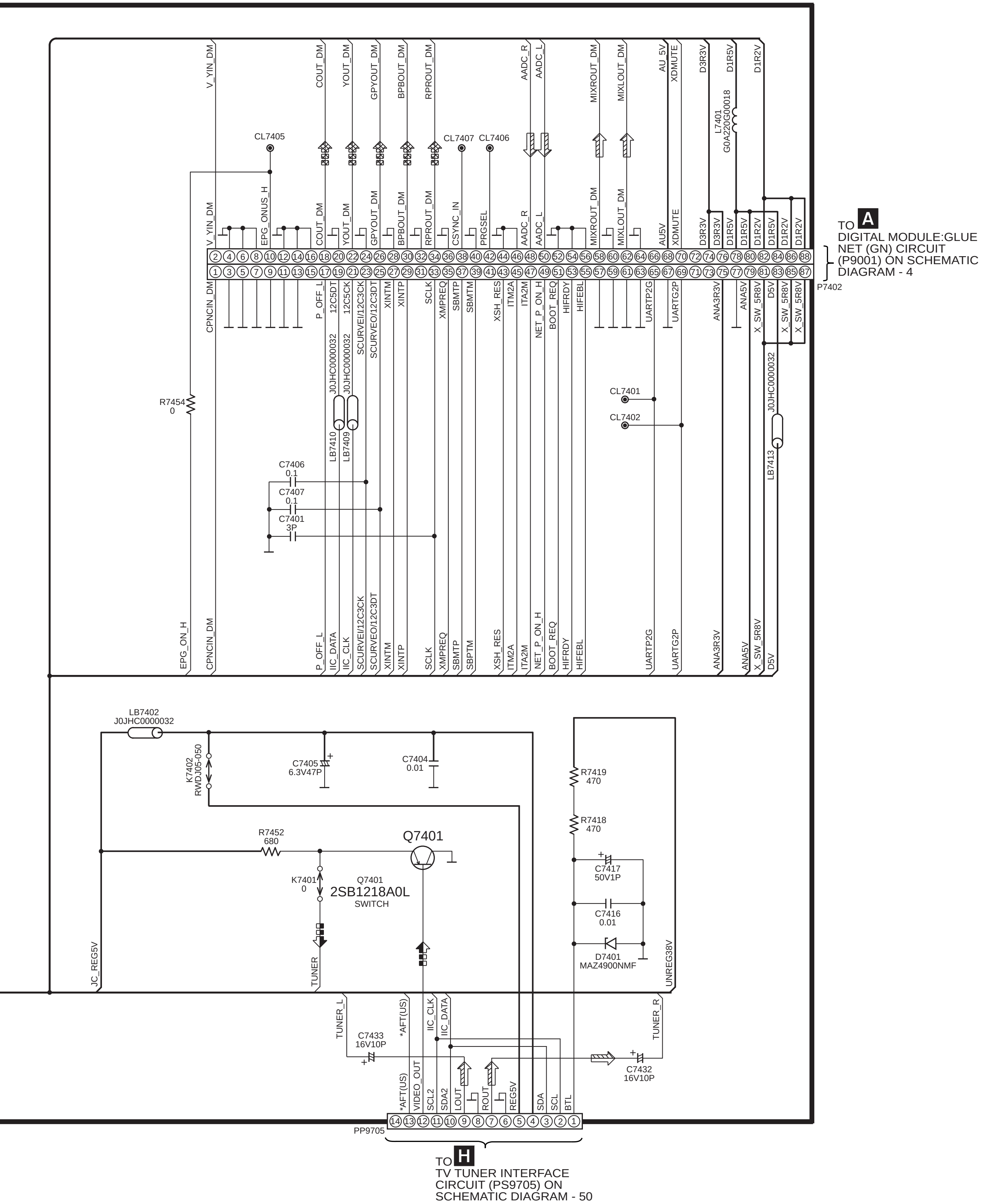


TL7401
*AFT(US)
K7403
0
K7404
0
R7444
15K
R7445
2.2K
R7443
1K
R7446
13K
R7442
2.2K
IC7404
C0BBBB000006
COMPARATOR IC
5 +
6 -
7 OUT
8 VCC
VSS 4
+ 3
- 2
OUT 1
IC7404
JC_REG5V
XJCINT
SCURVEI/12C3CK
LB7412
ERJ3GEY0R00V
C7436
0.1
C7437
6.3V47P
SCURVEO/12C3DT
LB7411
ERJ3GEY0R00V
PR/CR
PB/CB
PY/CY
LINE2_OUT
LINE3_OUT
14 13 12 11 10 9 8 7 6 5 4 3 2 1
P3906

TO G
TERMINAL CIRCUIT
(CN3906) ON SCHEMATIC
DIAGRAM - 51

: +B SIGNAL LINE
: MAIN SIGNAL LINE
: DVD VIDEO SIGNAL LINE
: VIDEO SIGNAL LINE

## B MAIN 2 CIRCUIT


V_YIN_DM
COUT_DM
YOUT_DM
GPYOUT_DM
BPBOUT_DM
RPROUT_DM
AADC_R
AADC_L
MIXROUT_DM
MIXLOUT_DM
AU_5V
XDMUTE
D3R3V
D1R5V
D1R2V
L7401
G0A220G00018
CL7405
CL7407
CL7406
EPG_ONUS_H
CSYNC_IN
PRGSEL
AU5V
P7402
CPNCIN_DM
P_OFF_L
12C5DT
12C5CK
SCURVEI/12C3CK
SCURVEO/12C3DT
XINTM
XINTP
SCLK
XMPREQ
SBMTP
SBMTM
XSH_RES
ITM2A
ITA2M
NET_P_ON_H
BOOT_REQ
HIFRDY
HIFEBL
UARTP2G
UARTG2P
ANA3R3V
ANA5V
X_SW_5R8V
D5V
J0JHC0000032
LB7410
LB7409
LB7413
CL7401
CL7402
R7454
0
C7406
0.1
C7407
0.1
C7401
3P
EPG_ON_H
IIC_DATA
IIC_CLK
SCURVEI/12C3CK
SCURVEO/12C3DT
SBPTM
LB7402
J0JHC0000032
K7402
RWDJ05-050
C7405
6.3V47P
C7404
0.01
R7419
470
R7418
470
C7417
50V1P
C7416
0.01
D7401
MAZ4900NMF
R7452
680
Q7401
K7401
0
Q7401
2SB1218A0L
SWITCH
JC_REG5V
TUNER
UNREG38V
TUNER_L
*AFT(US)
IIC_CLK
IIC_DATA
TUNER_R
C7433
16V10P
C7432
16V10P
*AFT(US)
VIDEO_OUT
SCL2
SDA2
LOUT
ROUT
REG5V
SDA
SCL
BTL
PP9705
TO A
DIGITAL MODULE:GLUE NET (GN) CIRCUIT (P9001) ON SCHEMATIC DIAGRAM - 4
TO H
TV TUNER INTERFACE CIRCUIT (PS9705) ON SCHEMATIC DIAGRAM - 50

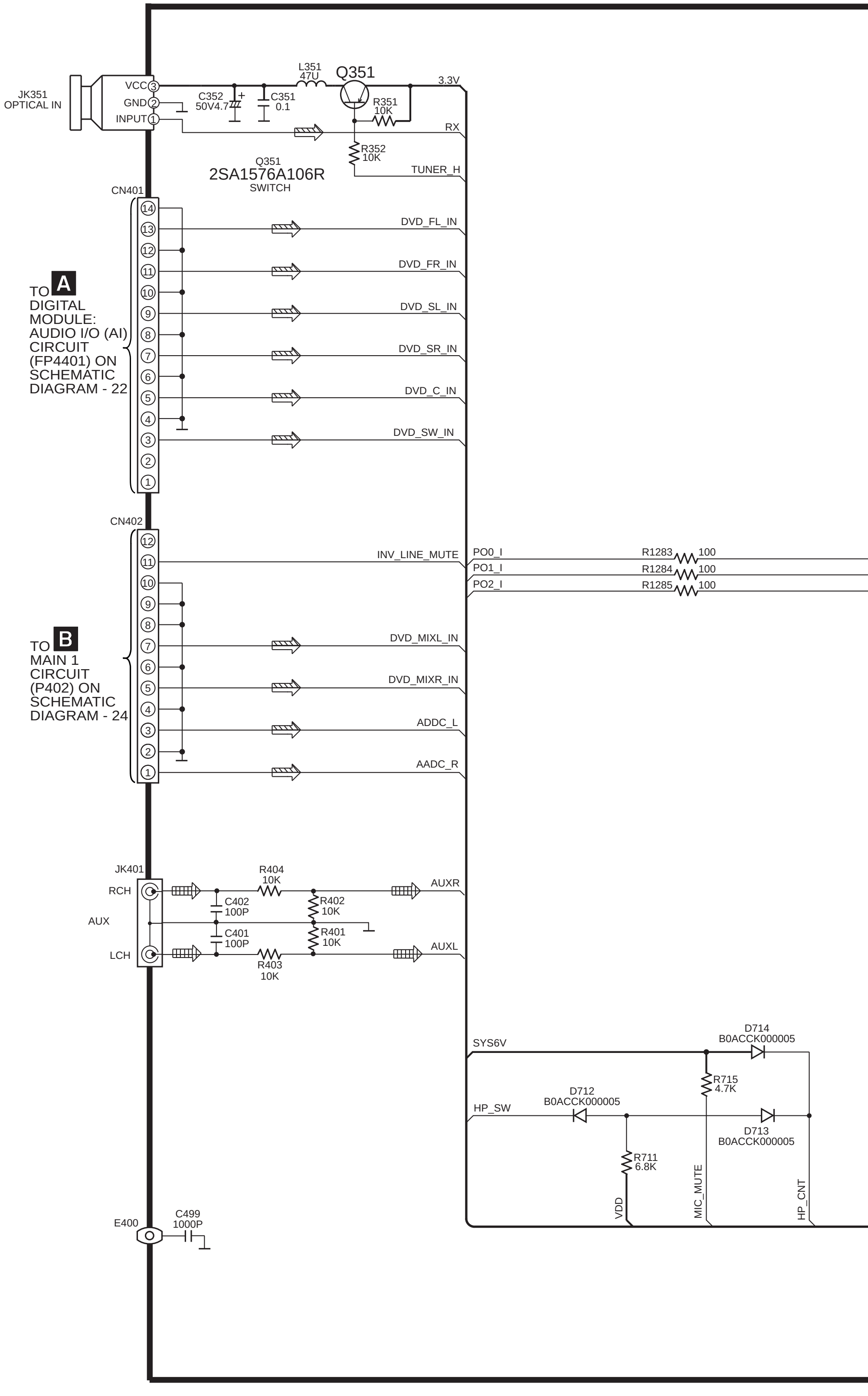
—— : +B SIGNAL LINE

(Side A) (Side B)

⇨ : MAIN SIGNAL LINE

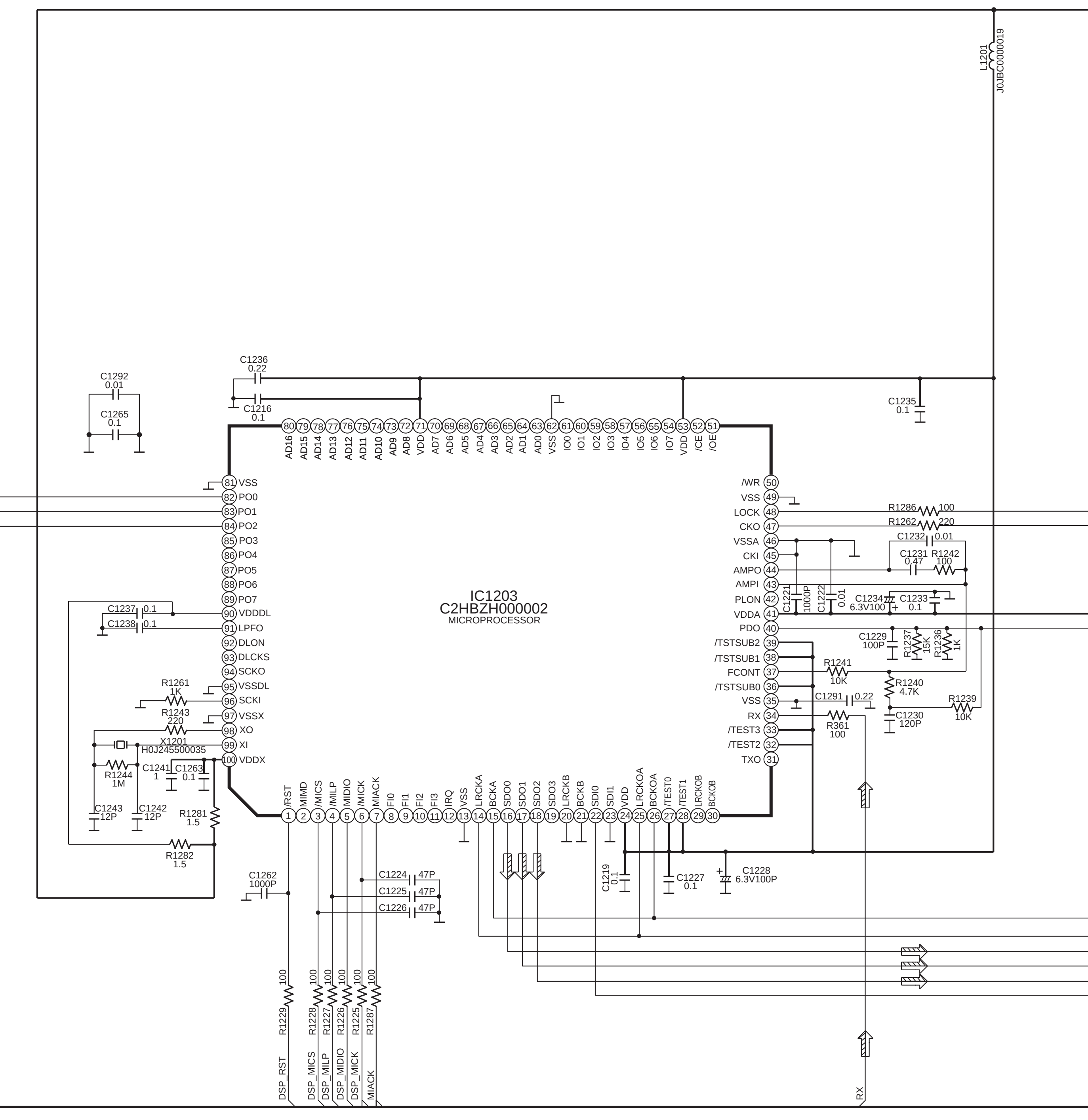
⇨ : AUX SIGNAL LINE

## C AUDIO CIRCUIT


JK351
OPTICAL IN
VCC③
GND②
INPUT①
C352
50V4.7
C351
0.1
L351
47U
Q351
R351
10K
3.3V
RX
R352
10K
TUNER_H
Q351
2SA1576A106R
SWITCH
CN401
TO A
DIGITAL
MODULE:
AUDIO I/O (AI)
CIRCUIT
(FP4401) ON
SCHEMATIC
DIAGRAM - 22
DVD_FL_IN
DVD_FR_IN
DVD_SL_IN
DVD_SR_IN
DVD_C_IN
DVD_SW_IN
CN402
TO B
MAIN 1
CIRCUIT
(P402) ON
SCHEMATIC
DIAGRAM - 24
INV_LINE_MUTE
PO0_I
PO1_I
PO2_I
R1283 100
R1284 100
R1285 100
DVD_MIXL_IN
DVD_MIXR_IN
ADDC_L
AADC_R
JK401
RCH
AUX
LCH
R404
10K
C402
100P
C401
100P
R402
10K
R401
10K
R403
10K
AUXR
AUXL
SYS6V
D714
B0ACCK000005
R715
4.7K
HP_SW
D712
B0ACCK000005
D713
B0ACCK000005
R711
6.8K
VDD
MIC_MUTE
HP_CNT
E400
C499
1000P

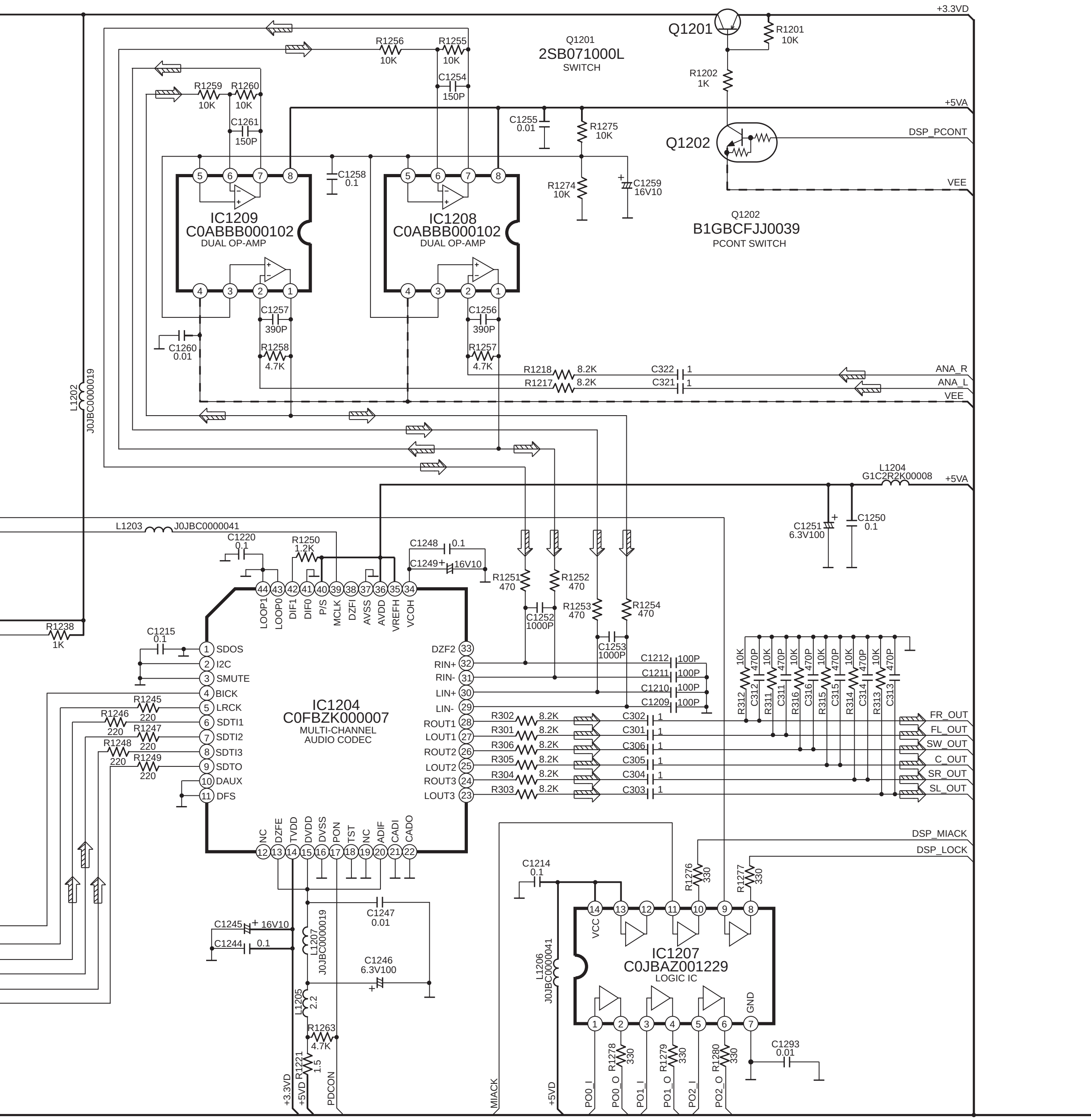
—— : +B SIGNAL LINE ⇨: MAIN SIGNAL LINE

## C AUDIO CIRCUIT


L1201
J0JBC0000019
C1236
0.22
C1216
0.1
C1292
0.01
C1265
0.1
C1235
0.1
IC1203
C2HBZH000002
MICROPROCESSOR
80 AD16
79 AD15
78 AD14
77 AD13
76 AD12
75 AD11
74 AD10
73 AD9
72 AD8
71 VDD
70 AD7
69 AD6
68 AD5
67 AD4
66 AD3
65 AD2
64 AD1
63 AD0
62 VSS
61 IO0
60 IO1
59 IO2
58 IO3
57 IO4
56 IO5
55 IO6
54 IO7
53 VDD
52 /CE
51 /OE
81 VSS
82 PO0
83 PO1
84 PO2
85 PO3
86 PO4
87 PO5
88 PO6
89 PO7
90 VDDDL
91 LPFO
92 DLON
93 DLCKS
94 SCKO
95 VSSDL
96 SCKI
97 VSSX
98 XO
99 XI
100 VDDX
50 /WR
49 VSS
48 LOCK
47 CKO
46 VSSA
45 CKI
44 AMPO
43 AMPI
42 PLON
41 VDDA
40 PDO
39 /TSTSUB2
38 /TSTSUB1
37 FCONT
36 /TSTSUB0
35 VSS
34 RX
33 /TEST3
32 /TEST2
31 TXO
1 /RST
2 MIMD
3 /MICS
4 /MILP
5 MIDIO
6 /MICK
7 MIACK
8 FI0
9 FI1
10 FI2
11 FI3
12 IRQ
13 VSS
14 LRCKA
15 BCKA
16 SDO0
17 SDO1
18 SDO2
19 SDO3
20 LRCKB
21 BCKB
22 SDI0
23 SDI1
24 VDD
25 LRCKOA
26 BCKOA
27 /TEST0
28 /TEST1
29 LRCKOB
30 BCKOB
C1237 0.1
C1238 0.1
R1261
1K
R1243
220
X1201
H0J245500035
R1244
1M
C1241
1
C1263
0.1
C1243
12P
C1242
12P
R1281
1.5
R1282
1.5
R1286 100
R1262 220
C1232 0.01
C1231 0.47
R1242 100
C1221 1000P
C1222 0.01
C1234 6.3V100
C1233 0.1
C1229 100P
R1237 15K
R1236 1K
R1241 10K
R1240 4.7K
C1291 0.22
R361 100
C1230 120P
R1239 10K
C1262 1000P
C1224 47P
C1225 47P
C1226 47P
C1219 0.1
C1227 0.1
C1228 6.3V100P
R1229 100
R1228 100
R1227 100
R1226 100
R1225 100
R1287 100
DSP_RST
DSP_MICS
DSP_MILP
DSP_MIDIO
DSP_MICK
MIACK
RX

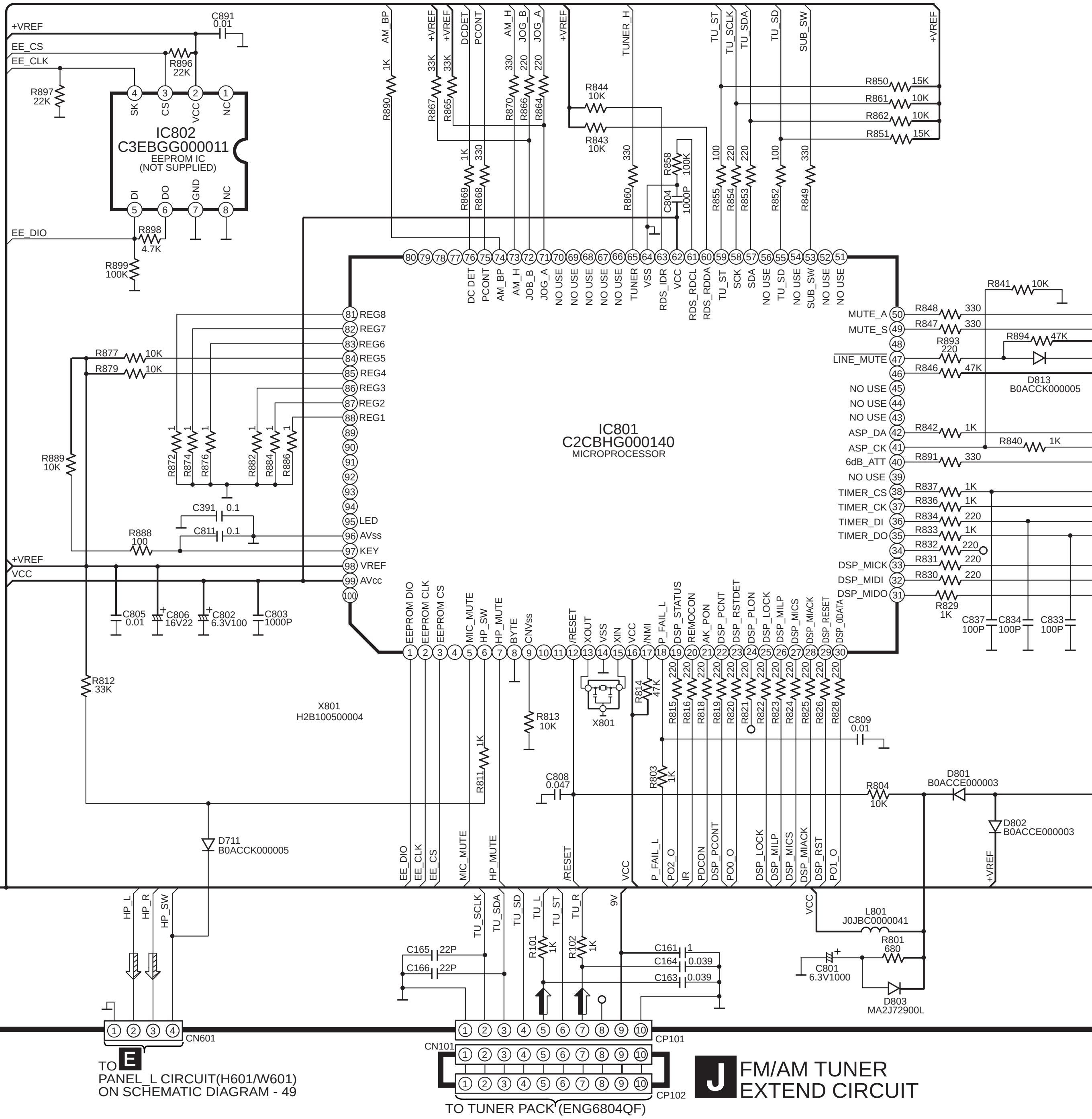
—— : +B SIGNAL LINE
– – : +B SIGNAL LINE
⇨ : MAIN SIGNAL LINE

## C AUDIO CIRCUIT


+3.3VD
Q1201
R1201 10K
Q1201
2SB071000L
SWITCH
R1256 10K
R1255 10K
C1254 150P
R1202 1K
R1259 10K
R1260 10K
C1261 150P
+5VA
C1255 0.01
R1275 10K
Q1202
DSP_PCONT
C1258 0.1
R1274 10K
C1259 16V10
VEE
IC1209
C0ABBB000102
DUAL OP-AMP
IC1208
C0ABBB000102
DUAL OP-AMP
Q1202
B1GBCFJJ0039
PCONT SWITCH
C1257 390P
C1256 390P
C1260 0.01
R1258 4.7K
R1257 4.7K
R1218 8.2K
R1217 8.2K
C322 1
C321 1
ANA_R
ANA_L
VEE
L1202 J0JBC0000019
L1204 G1C2R2K00008
+5VA
C1251 6.3V100
C1250 0.1
L1203 J0JBC0000041
C1220 0.1
R1250 1.2K
C1248 0.1
C1249 16V10
R1251 470
R1252 470
R1253 470
R1254 470
C1252 1000P
C1253 1000P
R1238 1K
C1215 0.1
LOOP1 LOOP0 DIF1 DIF0 P/S MCLK DZFI AVSS AVDD VREFH VCOH
SDOS I2C SMUTE BICK LRCK SDTI1 SDTI2 SDTI3 SDTO DAUX DFS
DZF2 RIN+ RIN- LIN+ LIN- ROUT1 LOUT1 ROUT2 LOUT2 ROUT3 LOUT3
IC1204
C0FBZK000007
MULTI-CHANNEL
AUDIO CODEC
R1245 220
R1246 220
R1247 220
R1248 220
R1249 220
C1212 100P
C1211 100P
C1210 100P
C1209 100P
R302 8.2K
R301 8.2K
R306 8.2K
R305 8.2K
R304 8.2K
R303 8.2K
C302 1
C301 1
C306 1
C305 1
C304 1
C303 1
R312 10K C312 470P R311 10K C311 470P R316 10K C316 470P R315 10K C315 470P R314 10K C314 470P R313 10K C313 470P
FR_OUT
FL_OUT
SW_OUT
C_OUT
SR_OUT
SL_OUT
NC DZFE TVDD DVDD DVSS PON TST NC ADIF CADI CADO
DSP_MIACK
DSP_LOCK
C1214 0.1
R1276 330
R1277 330
C1247 0.01
C1245 16V10
C1244 0.1
L1207 J0JBC0000019
C1246 6.3V100
L1206 J0JBC0000041
VCC
IC1207
C0JBAZ001229
LOGIC IC
GND
L1205 2.2
R1263 4.7K
R1221 1.5
R1278 330
R1279 330
R1280 330
C1293 0.01
+3.3VD
+5VD
PDCON
MIACK
+5VD
PO0_I
PO0_O
PO1_I
PO1_O
PO2_I
PO2_O

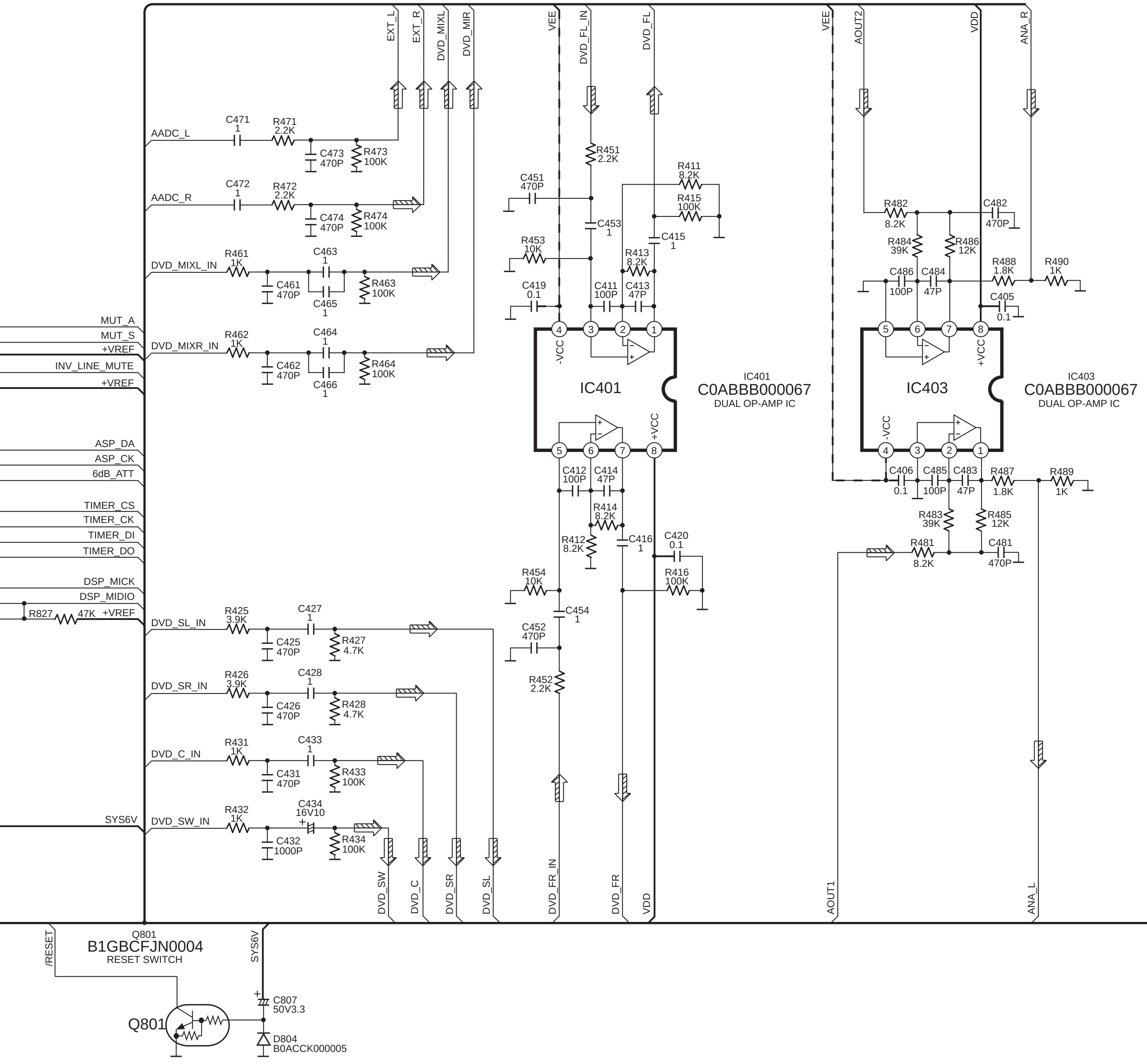
: +B SIGNAL LINE : MAIN SIGNAL LINE : FM/AM SIGNAL LINE

## C AUDIO CIRCUIT


+VREF
EE_CS
EE_CLK
EE_DIO
VCC
C891 0.01
R896 22K
R897 22K
R898 4.7K
R899 100K
IC802
C3EBGG000011
EEPROM IC
(NOT SUPPLIED)
SK CS VCC NC
DI DO GND NC
IC801
C2CBHG000140
MICROPROCESSOR
AM_BP
+VREF
DCDET
PCONT
AM_H
JOG_B
JOG_A
TUNER_H
TU_ST
TU_SCLK
TU_SDA
TU_SD
SUB_SW
R890 1K
R867 33K
R865 33K
R869 1K
R868 330
R870 330
R866 220
R864 220
R844 10K
R843 10K
R860 330
R858 100K
C804 1000P
R855 100
R854 220
R853 220
R852 100
R849 330
R850 15K
R861 10K
R862 10K
R851 15K
DC DET
PCONT
AM_BP
AM_H
JOB_B
JOG_A
NO USE
TUNER
VSS
RDS_IDR
VCC
RDS_RDCL
RDS_RDDA
TU_ST
SCK
SDA
TU_SD
SUB_SW
REG8
REG7
REG6
REG5
REG4
REG3
REG2
REG1
LED
AVss
KEY
VREF
AVcc
R877 10K
R879 10K
R889 10K
R872 1
R874 1
R876 1
R882 1
R884 1
R886 1
C391 0.1
C811 0.1
R888 100
C805 0.01
C806 16V22
C802 6.3V100
C803 1000P
R812 33K
X801
H2B100500004
D711
B0ACCK000005
MUTE_A
MUTE_S
LINE_MUTE
NO USE
ASP_DA
ASP_CK
6dB_ATT
TIMER_CS
TIMER_CK
TIMER_DI
TIMER_DO
DSP_MICK
DSP_MIDI
DSP_MIDO
R841 10K
R848 330
R847 330
R893 220
R894 47K
R846 47K
D813
B0ACCK000005
R842 1K
R840 1K
R891 330
R837 1K
R836 1K
R834 220
R833 1K
R832 220
R831 220
R830 220
R829 1K
C837 100P
C834 100P
C833 100P
EEPROM DIO
EEPROM CLK
EEPROM CS
MIC_MUTE
HP_SW
HP_MUTE
BYTE
CNVss
/RESET
XOUT
VSS
XIN
VCC
/NMI
P_FAIL_L
DSP_STATUS
REMOCON
AK_PON
DSP_PCNT
DSP_RSTDET
DSP_PLON
DSP_LOCK
DSP_MILP
DSP_MICS
DSP_MIACK
DSP_RESET
DSP_0DATA
R813 10K
R814 47K
R811 1K
R815 220
R816 220
R818 220
R819 220
R820 220
R821 220
R822 220
R823 220
R824 220
R825 220
R826 220
R828 220
C809 0.01
C808 0.047
R803 1K
R804 10K
D801
B0ACCE000003
D802
B0ACCE000003
EE_DIO
EE_CLK
EE_CS
MIC_MUTE
HP_MUTE
/RESET
VCC
P_FAIL_L
PO2_O
IR
PDCON
DSP_PCONT
PO0_O
DSP_LOCK
DSP_MILP
DSP_MICS
DSP_MIACK
DSP_RST
PO1_O
+VREF
HP_L
HP_R
HP_SW
TU_SCLK
TU_SDA
TU_SD
TU_L
TU_ST
TU_R
9V
VCC
C165 22P
C166 22P
R101 1K
R102 1K
C161 1
C164 0.039
C163 0.039
L801
J0JBC0000041
R801 680
C801 6.3V1000
D803
MA2J72900L
CN601
CP101
CN101
CP102
TO E
PANEL_L CIRCUIT(H601/W601)
ON SCHEMATIC DIAGRAM - 49
TO TUNER PACK (ENG6804QF)
J FM/AM TUNER
EXTEND CIRCUIT

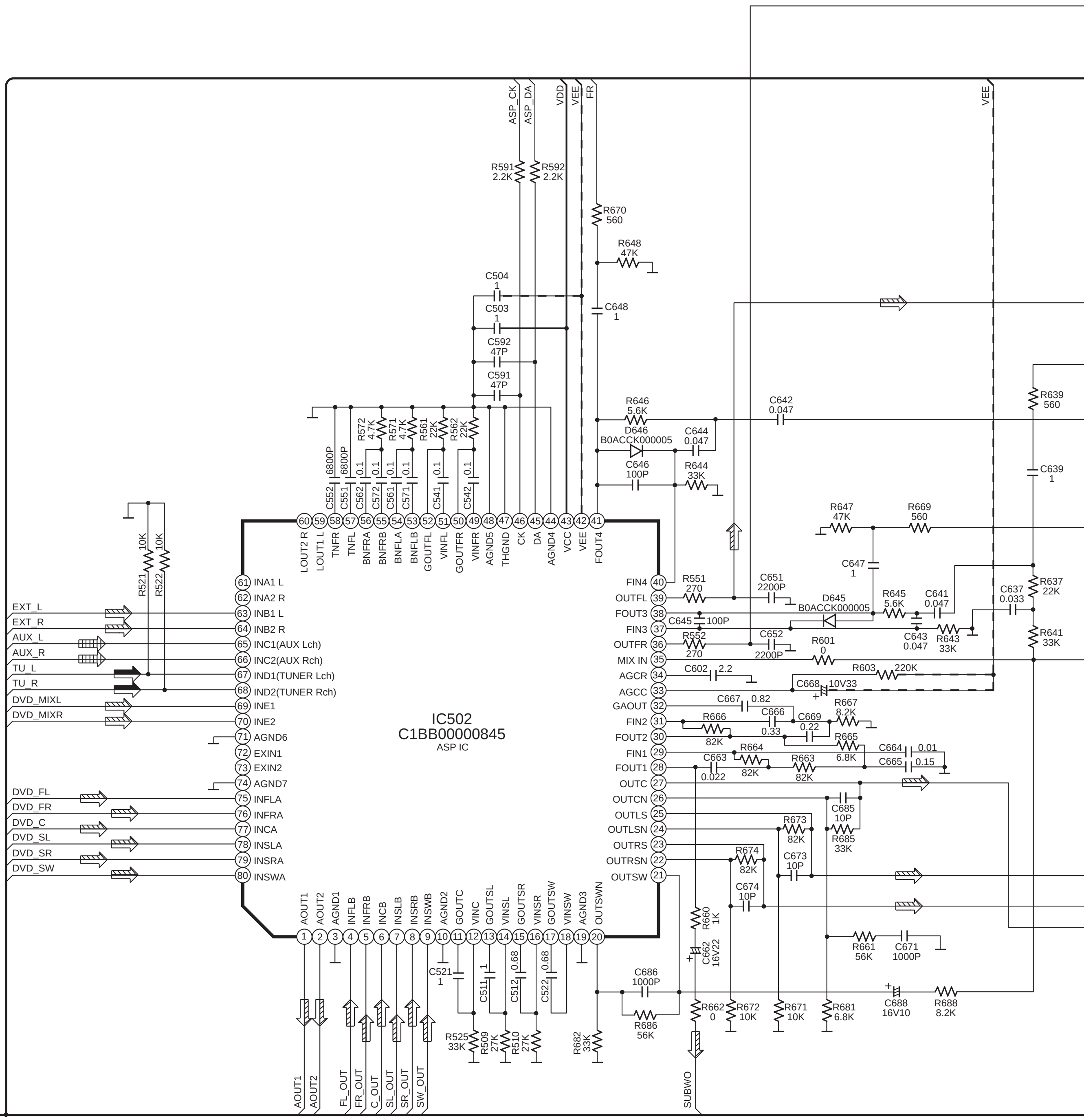
—— : +B SIGNAL LINE    – – : +B SIGNAL LINE    ⇨ : MAIN SIGNAL LINE

## C AUDIO CIRCUIT


EXT_L
EXT_R
DVD_MIXL
DVD_MIR
VEE
DVD_FL_IN
DVD_FL
VEE
AOUT2
VDD
ANA_R
AADC_L
C471 1
R471 2.2K
C473 470P
R473 100K
AADC_R
C472 1
R472 2.2K
C474 470P
R474 100K
DVD_MIXL_IN
R461 1K
C463 1
C461 470P
C465 1
R463 100K
MUT_A
MUT_S
+VREF
DVD_MIXR_IN
R462 1K
C464 1
C462 470P
C466 1
R464 100K
INV_LINE_MUTE
+VREF
ASP_DA
ASP_CK
6dB_ATT
TIMER_CS
TIMER_CK
TIMER_DI
TIMER_DO
DSP_MICK
DSP_MIDIO
R827 47K
+VREF
DVD_SL_IN
R425 3.9K
C427 1
C425 470P
R427 4.7K
DVD_SR_IN
R426 3.9K
C428 1
C426 470P
R428 4.7K
DVD_C_IN
R431 1K
C433 1
C431 470P
R433 100K
SYS6V
DVD_SW_IN
R432 1K
C434 16V10
C432 1000P
R434 100K
DVD_SW
DVD_C
DVD_SR
DVD_SL
R451 2.2K
C451 470P
C453 1
R453 10K
C419 0.1
R411 8.2K
R415 100K
C415 1
R413 8.2K
C411 100P
C413 47P
-VCC
+VCC
IC401
IC401
C0ABBB000067
DUAL OP-AMP IC
C412 100P
C414 47P
R414 8.2K
R412 8.2K
C416 1
C420 0.1
R416 100K
R454 10K
C454 1
C452 470P
R452 2.2K
DVD_FR_IN
DVD_FR
VDD
R482 8.2K
C482 470P
R484 39K
R486 12K
C486 100P
C484 47P
R488 1.8K
R490 1K
C405 0.1
IC403
IC403
C0ABBB000067
DUAL OP-AMP IC
C406 0.1
C485 100P
C483 47P
R487 1.8K
R489 1K
R483 39K
R485 12K
R481 8.2K
C481 470P
AOUT1
ANA_L
/RESET
Q801
B1GBCFJN0004
RESET SWITCH
SYS6V
C807 50V3.3
Q801
D804 B0ACCK000005

—— : +B SIGNAL LINE   – – : -B SIGNAL LINE   ⇨ : MAIN SIGNAL LINE   ➡ : FM/AM SIGNAL LINE   ⇨ : AUX SIGNAL LINE

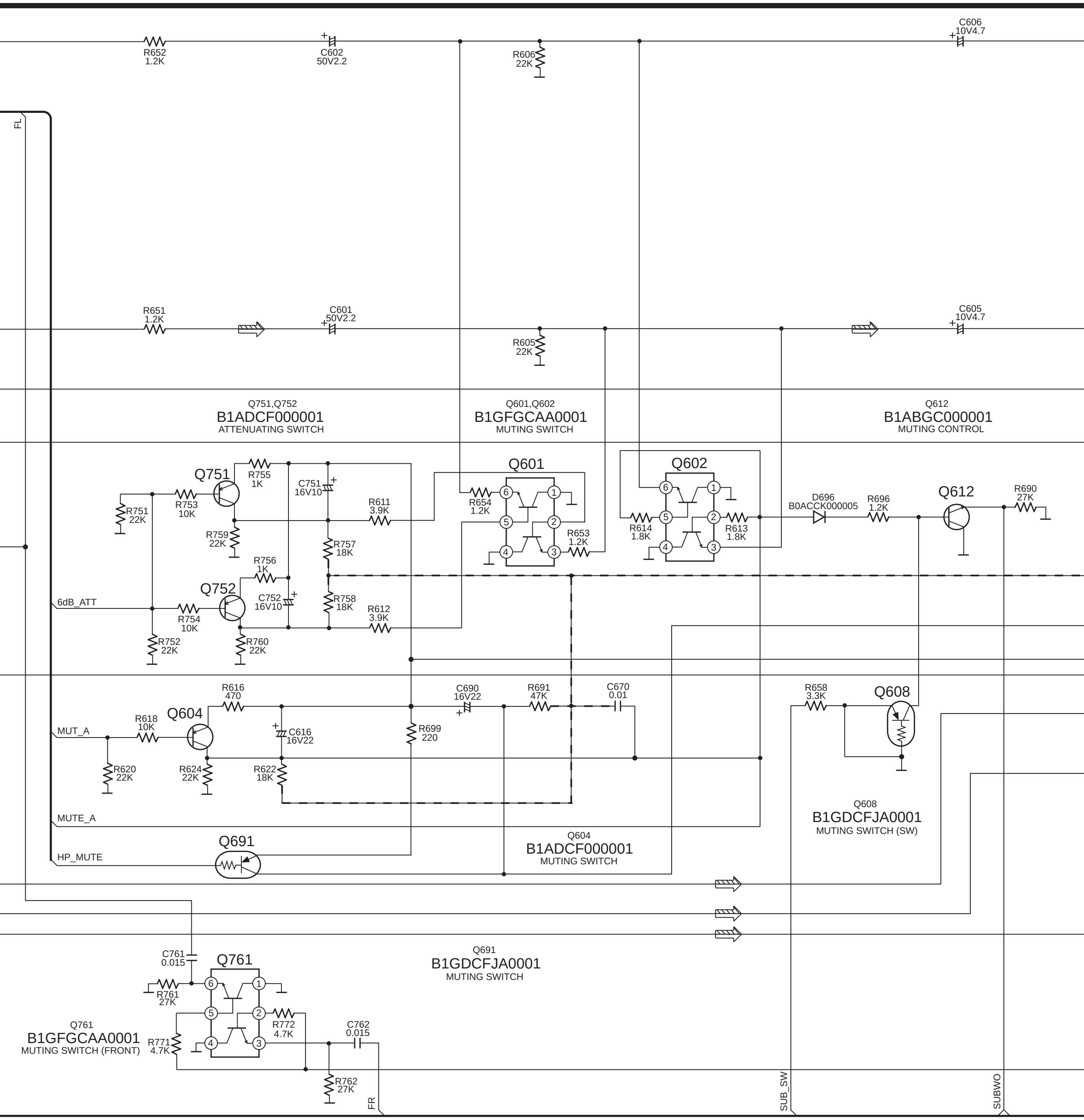
## C AUDIO CIRCUIT



IC502
C1BB00000845
ASP IC
ASP_CK
ASP_DA
VDD
VEE
FR
VEE
R591 2.2K
R592 2.2K
R670 560
R648 47K
C504 1
C503 1
C592 47P
C591 47P
C648 1
R646 5.6K
D646 B0ACCK000005
C644 0.047
C646 100P
R644 33K
C642 0.047
R639 560
C639 1
R647 47K
R669 560
C647 1
R637 22K
R641 33K
C637 0.033
R645 5.6K
C641 0.047
C643 0.047
R643 33K
D645 B0ACCK000005
R551 270
C651 2200P
C645 100P
R552 270
C652 2200P
R601 0
C602 2.2
R603 220K
C668 10V33
C667 0.82
R667 8.2K
R666 82K
C666 0.33
C669 0.22
R665 6.8K
R664 82K
C663 0.022
R663 82K
C664 0.01
C665 0.15
C685 10P
R685 33K
R673 82K
R674 82K
C673 10P
C674 10P
R660 1K
C662 16V22
R661 56K
C671 1000P
C686 1000P
R686 56K
R662 0
R672 10K
R671 10K
R681 6.8K
C688 16V10
R688 8.2K
R682 33K
R525 33K
R509 27K
R510 27K
C521 1
C511 1
C512 0.68
C522 0.68
C552 6800P
C551 6800P
C562 0.1
C572 0.1
C561 0.1
C571 0.1
C541 0.1
C542 0.1
R572 4.7K
R571 4.7K
R561 22K
R562 22K
R521 10K
R522 10K
EXT_L
EXT_R
AUX_L
AUX_R
TU_L
TU_R
DVD_MIXL
DVD_MIXR
DVD_FL
DVD_FR
DVD_C
DVD_SL
DVD_SR
DVD_SW
61 INA1 L
62 INA2 R
63 INB1 L
64 INB2 R
65 INC1(AUX Lch)
66 INC2(AUX Rch)
67 IND1(TUNER Lch)
68 IND2(TUNER Rch)
69 INE1
70 INE2
71 AGND6
72 EXIN1
73 EXIN2
74 AGND7
75 INFLA
76 INFRA
77 INCA
78 INSLA
79 INSRA
80 INSWA
60 LOUT2 R
59 LOUT1 L
58 TNFR
57 TNFL
56 BNFRA
55 BNFRB
54 BNFLA
53 BNFLB
52 GOUTFL
51 VINFL
50 GOUTFR
49 VINFR
48 AGND5
47 THGND
46 CK
45 DA
44 AGND4
43 VCC
42 VEE
41 FOUT4
40 FIN4
39 OUTFL
38 FOUT3
37 FIN3
36 OUTFR
35 MIX IN
34 AGCR
33 AGCC
32 GAOUT
31 FIN2
30 FOUT2
29 FIN1
28 FOUT1
27 OUTC
26 OUTCN
25 OUTLS
24 OUTLSN
23 OUTRS
22 OUTRSN
21 OUTSW
1 AOUT1
2 AOUT2
3 AGND1
4 INFLB
5 INFRB
6 INCB
7 INSLB
8 INSRB
9 INSWB
10 AGND2
11 GOUTC
12 VINC
13 GOUTSL
14 VINSL
15 GOUTSR
16 VINSR
17 GOUTSW
18 VINSW
19 AGND3
20 OUTSWN
AOUT1
AOUT2
FL_OUT
FR_OUT
C_OUT
SL_OUT
SR_OUT
SW_OUT
SUBWO

– – : -B SIGNAL LINE ⇨ : MAIN SIGNAL LINE

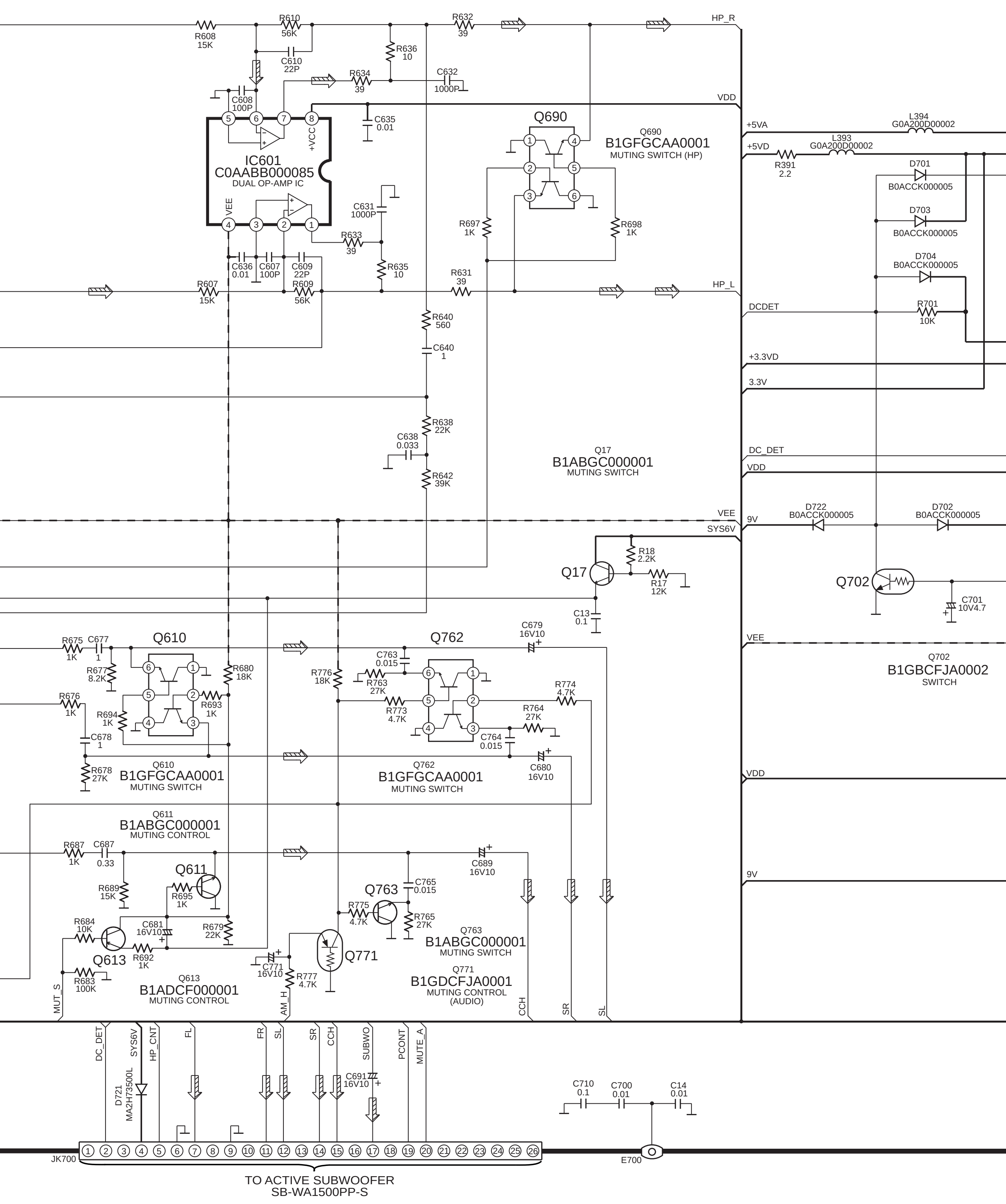
## C AUDIO CIRCUIT


R652
1.2K
C602
50V2.2
R606
22K
C606
10V4.7
FL
R651
1.2K
C601
50V2.2
R605
22K
C605
10V4.7
Q751,Q752
B1ADCF000001
ATTENUATING SWITCH
Q601,Q602
B1GFGCAA0001
MUTING SWITCH
Q612
B1ABGC000001
MUTING CONTROL
Q751
R755
1K
C751
16V10
R753
10K
R751
22K
R611
3.9K
R759
22K
R757
18K
Q601
R654
1.2K
R653
1.2K
Q602
R614
1.8K
R613
1.8K
D696
B0ACCK000005
R696
1.2K
Q612
R690
27K
R756
1K
Q752
C752
16V10
6dB_ATT
R754
10K
R758
18K
R612
3.9K
R752
22K
R760
22K
R616
470
Q604
R618
10K
MUT_A
C616
16V22
R699
220
C690
16V22
R691
47K
C670
0.01
R658
3.3K
Q608
R620
22K
R624
22K
R622
18K
Q608
B1GDCFJA0001
MUTING SWITCH (SW)
MUTE_A
Q604
B1ADCF000001
MUTING SWITCH
Q691
HP_MUTE
C761
0.015
Q761
Q691
B1GDCFJA0001
MUTING SWITCH
R761
27K
Q761
B1GFGCAA0001
MUTING SWITCH (FRONT)
R771
4.7K
R772
4.7K
C762
0.015
R762
27K
FR
SUB_SW
SUBWO

# SCHEMATIC DIAGRAM - 44

—— : +B SIGNAL LINE  – – : -B SIGNAL LINE  ⇨ : MAIN SIGNAL LINE

## C AUDIO CIRCUIT

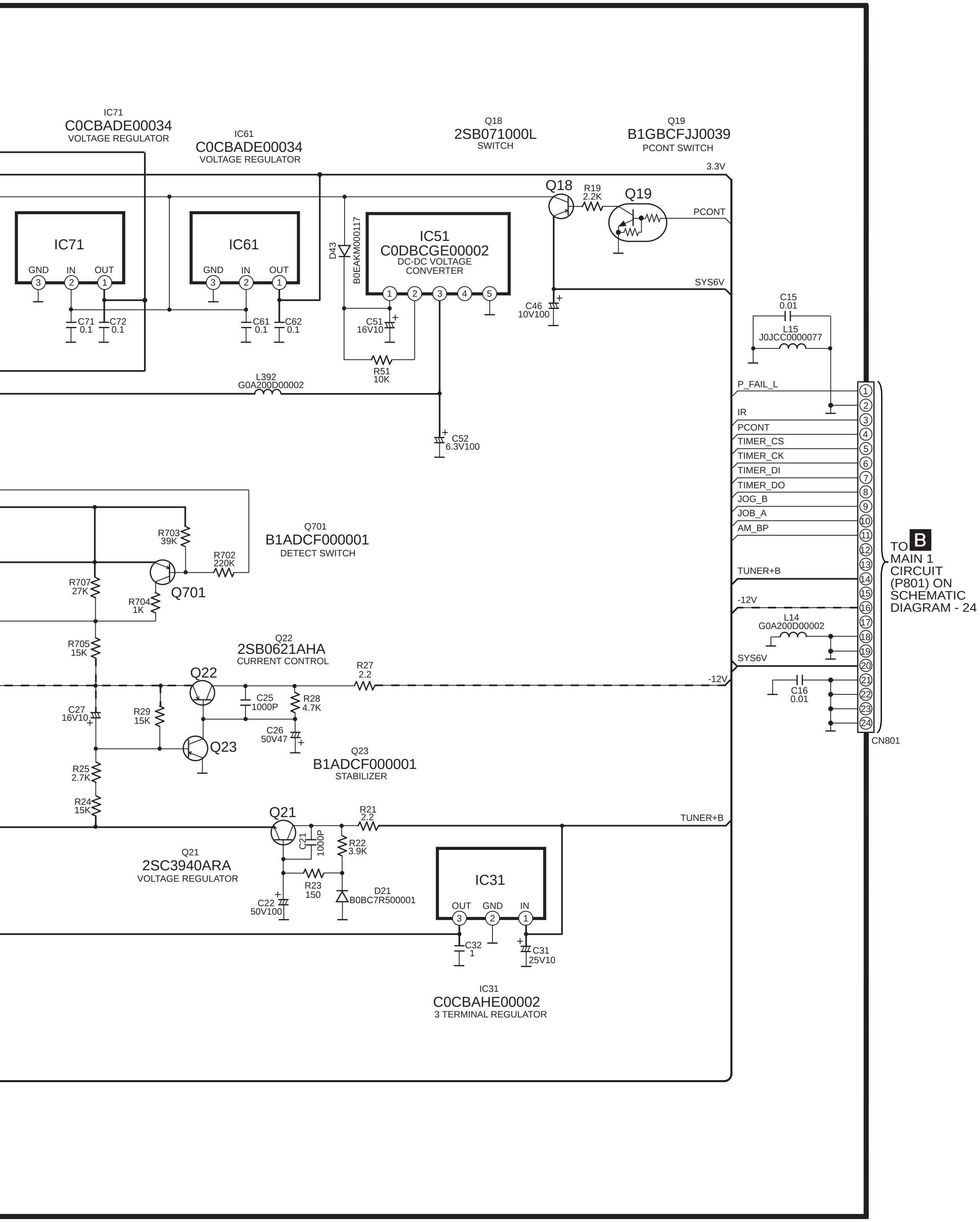


R608 15K
R610 56K
C610 22P
R632 39
HP_R
R636 10
R634 39
C632 1000P
C608 100P
VDD
C635 0.01
Q690
Q690 B1GFGCAA0001 MUTING SWITCH (HP)
+VCC
IC601 C0AABB000085 DUAL OP-AMP IC
VEE
C631 1000P
R697 1K
R698 1K
R633 39
R635 10
C636 0.01
C607 100P
C609 22P
R609 56K
R607 15K
R631 39
HP_L
R640 560
C640 1
R638 22K
C638 0.033
R642 39K
Q17 B1ABGC000001 MUTING SWITCH
VEE
SYS6V
R18 2.2K
Q17
R17 12K
C13 0.1
+5VA
L394 G0A200D00002
+5VD
R391 2.2
L393 G0A200D00002
D701 B0ACCK000005
D703 B0ACCK000005
D704 B0ACCK000005
DCDET
R701 10K
+3.3VD
3.3V
DC_DET
VDD
9V
D722 B0ACCK000005
D702 B0ACCK000005
Q702
C701 10V4.7
VEE
Q702 B1GBCFJA0002 SWITCH
VDD
9V
R675 1K
C677 1
Q610
R677 8.2K
R680 18K
R676 1K
R694 1K
R693 1K
C678 1
R678 27K
Q610 B1GFGCAA0001 MUTING SWITCH
C679 16V10
Q762
C763 0.015
R776 18K
R763 27K
R773 4.7K
R774 4.7K
R764 27K
C764 0.015
C680 16V10
Q762 B1GFGCAA0001 MUTING SWITCH
Q611 B1ABGC000001 MUTING CONTROL
R687 1K
C687 0.33
C689 16V10
Q611
R689 15K
R695 1K
C765 0.015
Q763
R775 4.7K
R765 27K
R684 10K
C681 16V10
R679 22K
Q613
R692 1K
Q763 B1ABGC000001 MUTING SWITCH
C771 16V10
Q771
R777 4.7K
R683 100K
Q613 B1ADCF000001 MUTING CONTROL
Q771 B1GDCFJA0001 MUTING CONTROL (AUDIO)
MUT_S
AM_H
CCH
SR
SL
DC_DET
SYS6V
HP_CNT
FL
FR
SL
SR
CCH
SUBWO
PCONT
MUTE_A
D721 MA2H73500L
C691 16V10
C710 0.1
C700 0.01
C14 0.01
JK700
E700
TO ACTIVE SUBWOOFER SB-WA1500PP-S

—— : +B SIGNAL LINE

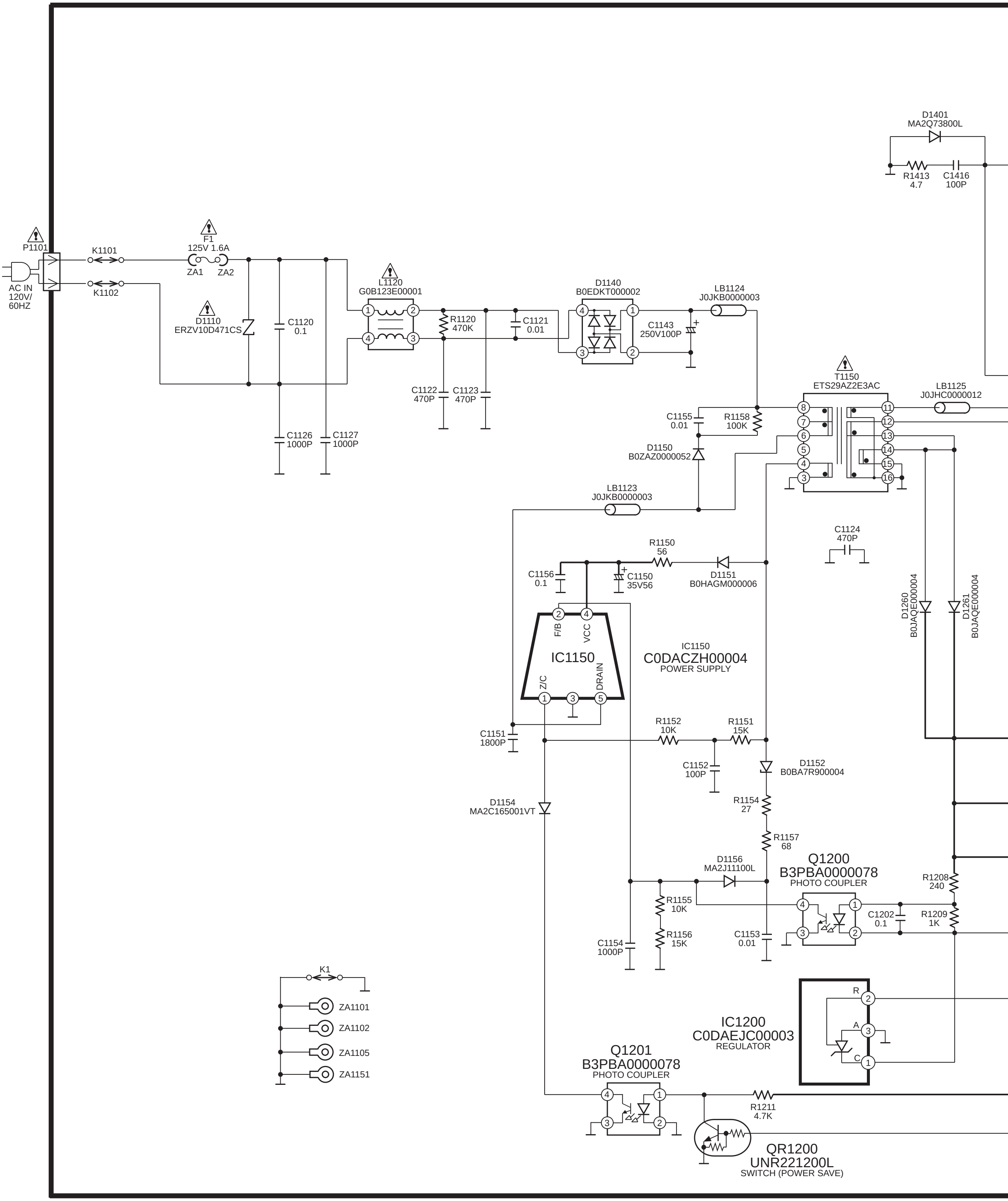
– – : -B SIGNAL LINE

## C AUDIO CIRCUIT


IC71
C0CBADE00034
VOLTAGE REGULATOR
IC61
C0CBADE00034
VOLTAGE REGULATOR
Q18
2SB071000L
SWITCH
Q19
B1GBCFJJ0039
PCONT SWITCH
3.3V
IC71
GND
IN
OUT
IC61
GND
IN
OUT
D43
B0EAKM000117
IC51
C0DBCGE00002
DC-DC VOLTAGE
CONVERTER
Q18
R19
2.2K
Q19
PCONT
SYS6V
C46
10V100
C71
0.1
C72
0.1
C61
0.1
C62
0.1
C51
16V10
R51
10K
C15
0.01
L15
J0JCC0000077
L392
G0A200D00002
C52
6.3V100
P_FAIL_L
IR
PCONT
TIMER_CS
TIMER_CK
TIMER_DI
TIMER_DO
JOG_B
JOB_A
AM_BP
TUNER+B
-12V
L14
G0A200D00002
SYS6V
-12V
C16
0.01
CN801
TO B
MAIN 1
CIRCUIT
(P801) ON
SCHEMATIC
DIAGRAM - 24
R703
39K
Q701
B1ADCF000001
DETECT SWITCH
R702
220K
R707
27K
R704
1K
Q701
R705
15K
Q22
2SB0621AHA
CURRENT CONTROL
Q22
R27
2.2
C25
1000P
R28
4.7K
C27
16V10
R29
15K
C26
50V47
Q23
Q23
B1ADCF000001
STABILIZER
R25
2.7K
R24
15K
Q21
R21
2.2
TUNER+B
C21
1000P
R22
3.9K
Q21
2SC3940ARA
VOLTAGE REGULATOR
R23
150
D21
B0BC7R500001
C22
50V100
IC31
OUT
GND
IN
C32
1
C31
25V10
IC31
C0CBAHE00002
3 TERMINAL REGULATOR

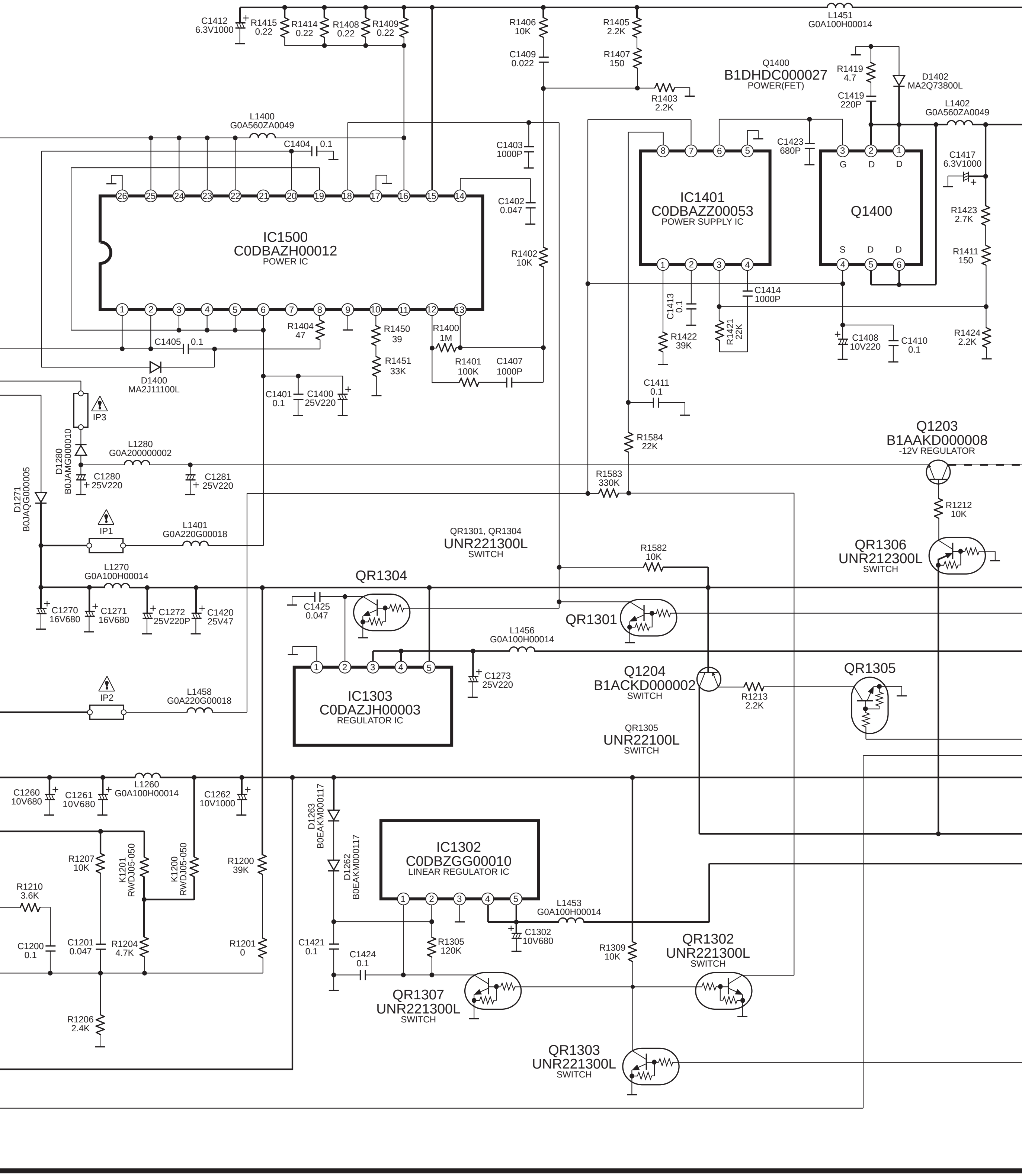
—— : +B SIGNAL LINE

## D POWER CIRCUIT


D1401
MA2Q73800L
R1413
4.7
C1416
100P
P1101
AC IN
120V/
60HZ
K1101
K1102
F1
125V 1.6A
ZA1
ZA2
D1110
ERZV10D471CS
C1120
0.1
C1126
1000P
C1127
1000P
L1120
G0B123E00001
R1120
470K
C1121
0.01
C1122
470P
C1123
470P
D1140
B0EDKT000002
LB1124
J0JKB0000003
C1143
250V100P
T1150
ETS29AZ2E3AC
LB1125
J0JHC0000012
C1155
0.01
R1158
100K
D1150
B0ZAZ0000052
LB1123
J0JKB0000003
C1124
470P
R1150
56
D1151
B0HAGM000006
C1156
0.1
C1150
35V56
F/B
VCC
IC1150
Z/C
DRAIN
IC1150
C0DACZH00004
POWER SUPPLY
D1260
B0JAQE000004
D1261
B0JAQE000004
C1151
1800P
R1152
10K
R1151
15K
C1152
100P
D1152
B0BA7R900004
R1154
27
R1157
68
D1154
MA2C165001VT
D1156
MA2J11100L
Q1200
B3PBA0000078
PHOTO COUPLER
R1208
240
R1155
10K
R1156
15K
C1154
1000P
C1153
0.01
C1202
0.1
R1209
1K
K1
ZA1101
ZA1102
ZA1105
ZA1151
IC1200
C0DAEJC00003
REGULATOR
R
A
C
Q1201
B3PBA0000078
PHOTO COUPLER
R1211
4.7K
QR1200
UNR221200L
SWITCH (POWER SAVE)

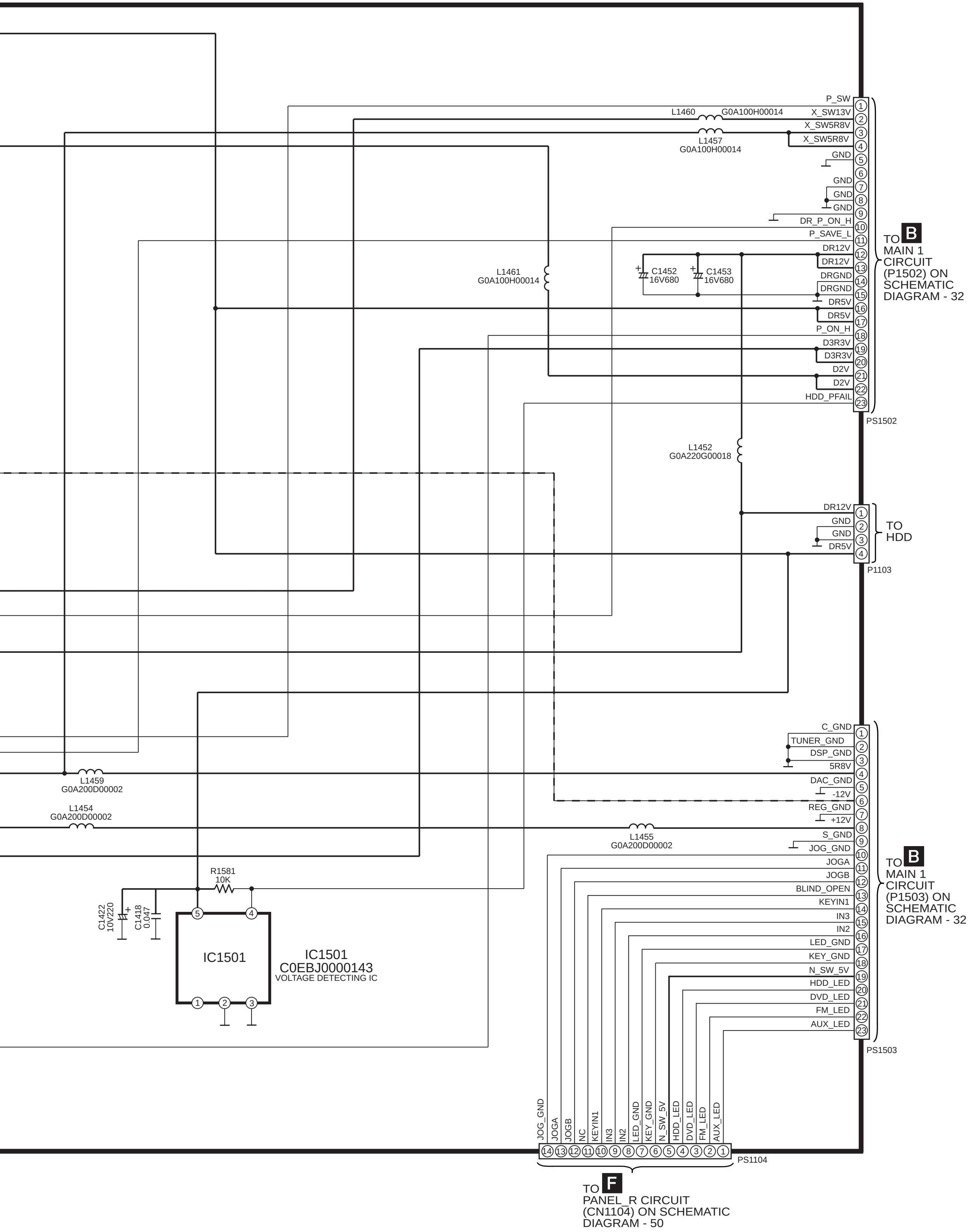
—— : +B SIGNAL LINE
– – : -B SIGNAL LINE

## D POWER CIRCUIT


C1412
6.3V1000
R1415
0.22
R1414
0.22
R1408
0.22
R1409
0.22
R1406
10K
R1405
2.2K
L1451
G0A100H00014
C1409
0.022
R1407
150
Q1400
B1DHDC000027
POWER(FET)
R1419
4.7
D1402
MA2Q73800L
R1403
2.2K
C1419
220P
L1402
G0A560ZA0049
L1400
G0A560ZA0049
C1404 0.1
C1403
1000P
C1423
680P
C1417
6.3V1000
C1402
0.047
IC1401
C0DBAZZ00053
POWER SUPPLY IC
Q1400
G D D
S D D
R1423
2.7K
IC1500
C0DBAZH00012
POWER IC
R1402
10K
R1411
150
C1414
1000P
C1413
0.1
R1404
47
R1450
39
R1400
1M
R1422
39K
R1421
22K
C1408
10V220
C1410
0.1
R1424
2.2K
C1405 0.1
R1401
100K
C1407
1000P
R1451
33K
D1400
MA2J11100L
C1401
0.1
C1400
25V220
C1411
0.1
IP3
D1280
B0JAMG000010
L1280
G0A200000002
R1584
22K
Q1203
B1AAKD000008
-12V REGULATOR
C1280
25V220
C1281
25V220
R1583
330K
D1271
B0JAQG000005
R1212
10K
IP1
L1401
G0A220G00018
QR1301, QR1304
UNR221300L
SWITCH
QR1306
UNR212300L
SWITCH
R1582
10K
L1270
G0A100H00014
QR1304
C1425
0.047
C1270
16V680
C1271
16V680
C1272
25V220P
C1420
25V47
QR1301
L1456
G0A100H00014
Q1204
B1ACKD000002
SWITCH
QR1305
C1273
25V220
R1213
2.2K
IP2
L1458
G0A220G00018
IC1303
C0DAZJH00003
REGULATOR IC
QR1305
UNR22100L
SWITCH
C1260
10V680
C1261
10V680
L1260
G0A100H00014
C1262
10V1000
D1263
B0EAKM000117
IC1302
C0DBZGG00010
LINEAR REGULATOR IC
R1207
10K
K1201
RWDJ05-050
K1200
RWDJ05-050
R1200
39K
D1262
B0EAKM000117
R1210
3.6K
L1453
G0A100H00014
C1302
10V680
C1200
0.1
C1201
0.047
R1204
4.7K
R1201
0
C1421
0.1
R1305
120K
R1309
10K
QR1302
UNR221300L
SWITCH
C1424
0.1
QR1307
UNR221300L
SWITCH
R1206
2.4K
QR1303
UNR221300L
SWITCH

—— : +B SIGNAL LINE    – – : -B SIGNAL LINE

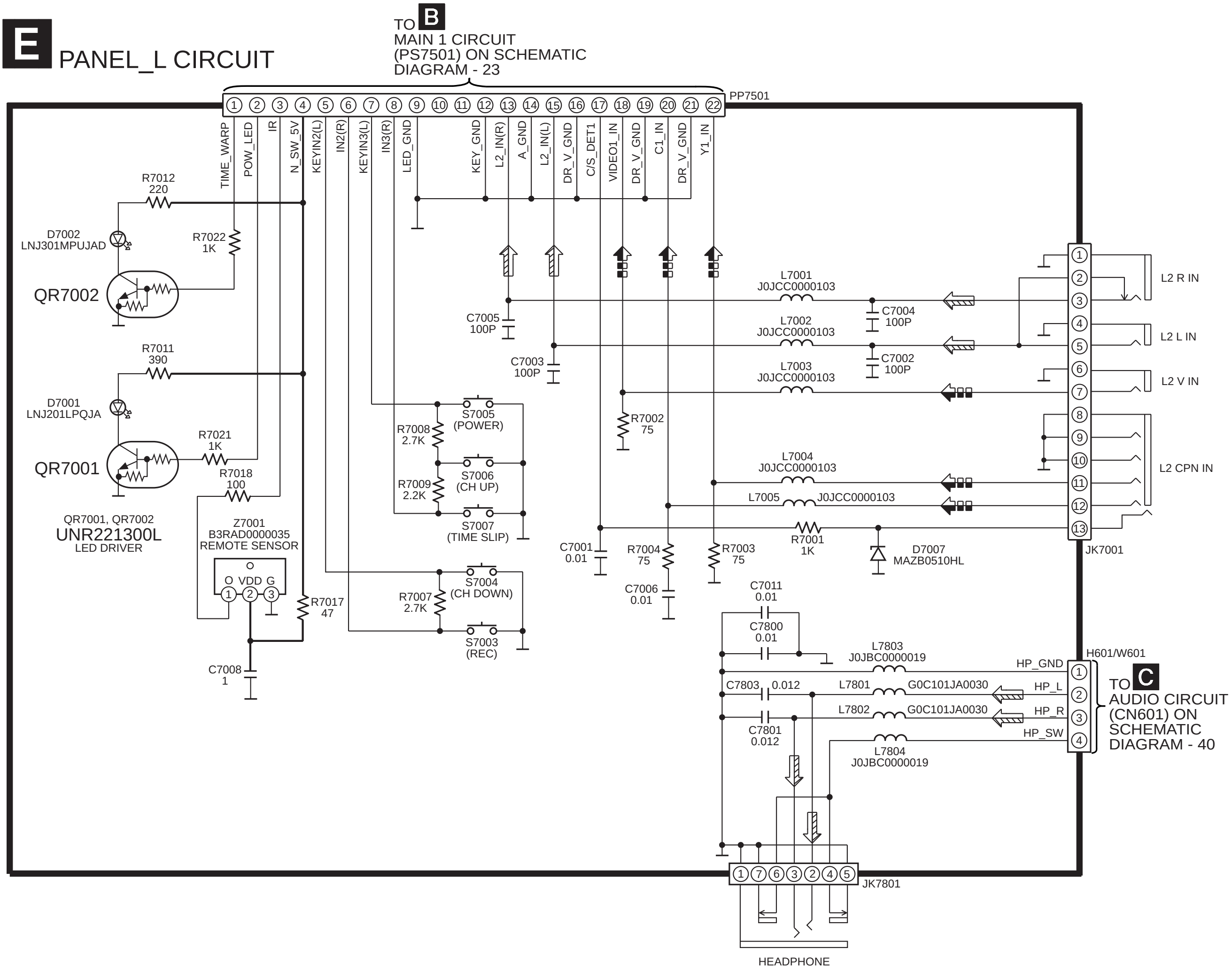
## D POWER CIRCUIT


P_SW
X_SW13V
X_SW5R8V
X_SW5R8V
GND
GND
GND
GND
DR_P_ON_H
P_SAVE_L
DR12V
DR12V
DRGND
DRGND
DR5V
DR5V
P_ON_H
D3R3V
D3R3V
D2V
D2V
HDD_PFAIL
PS1502
L1460 G0A100H00014
L1457 G0A100H00014
L1461 G0A100H00014
C1452 16V680
C1453 16V680
TO B MAIN 1 CIRCUIT (P1502) ON SCHEMATIC DIAGRAM - 32
L1452 G0A220G00018
DR12V
GND
GND
DR5V
P1103
TO HDD
C_GND
TUNER_GND
DSP_GND
5R8V
DAC_GND
-12V
REG_GND
+12V
S_GND
JOG_GND
JOGA
JOGB
BLIND_OPEN
KEYIN1
IN3
IN2
LED_GND
KEY_GND
N_SW_5V
HDD_LED
DVD_LED
FM_LED
AUX_LED
PS1503
TO B MAIN 1 CIRCUIT (P1503) ON SCHEMATIC DIAGRAM - 32
L1459 G0A200D00002
L1454 G0A200D00002
L1455 G0A200D00002
R1581 10K
C1422 10V220
C1418 0.047
IC1501
IC1501 C0EBJ0000143 VOLTAGE DETECTING IC
JOG_GND
JOGA
JOGB
NC
KEYIN1
IN3
IN2
LED_GND
KEY_GND
N_SW_5V
HDD_LED
DVD_LED
FM_LED
AUX_LED
PS1104
TO F PANEL_R CIRCUIT (CN1104) ON SCHEMATIC DIAGRAM - 50

# SCHEMATIC DIAGRAM - 49

—— : +B SIGNAL LINE ▪▪▪⇨: VIDEO SIGNAL LINE ⇨: MAIN SIGNAL LINE

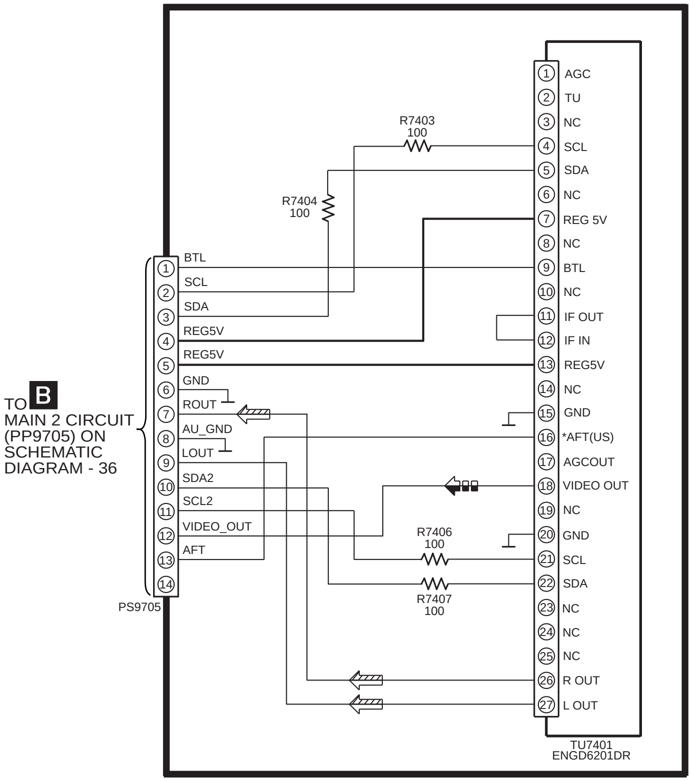
## E PANEL_L CIRCUIT


TO B
MAIN 1 CIRCUIT
(PS7501) ON SCHEMATIC
DIAGRAM - 23
PP7501
TIME_WARP
POW_LED
IR
N_SW_5V
KEYIN2(L)
IN2(R)
KEYIN3(L)
IN3(R)
LED_GND
KEY_GND
L2_IN(R)
A_GND
L2_IN(L)
DR_V_GND
C/S_DET1
VIDEO1_IN
DR_V_GND
C1_IN
DR_V_GND
Y1_IN
R7012
220
D7002
LNJ301MPUJAD
R7022
1K
QR7002
R7011
390
D7001
LNJ201LPQJA
R7021
1K
QR7001
R7018
100
QR7001, QR7002
UNR221300L
LED DRIVER
Z7001
B3RAD0000035
REMOTE SENSOR
O VDD G
R7017
47
C7008
1
R7008
2.7K
S7005
(POWER)
R7009
2.2K
S7006
(CH UP)
S7007
(TIME SLIP)
R7007
2.7K
S7004
(CH DOWN)
S7003
(REC)
C7005
100P
C7003
100P
L7001
J0JCC0000103
C7004
100P
L7002
J0JCC0000103
C7002
100P
L7003
J0JCC0000103
R7002
75
L7004
J0JCC0000103
L7005
J0JCC0000103
C7001
0.01
R7004
75
R7003
75
R7001
1K
D7007
MAZB0510HL
C7006
0.01
JK7001
L2 R IN
L2 L IN
L2 V IN
L2 CPN IN
C7011
0.01
C7800
0.01
L7803
J0JBC0000019
C7803
0.012
L7801
G0C101JA0030
L7802
G0C101JA0030
C7801
0.012
L7804
J0JBC0000019
H601/W601
HP_GND
HP_L
HP_R
HP_SW
TO C
AUDIO CIRCUIT
(CN601) ON
SCHEMATIC
DIAGRAM - 40
JK7801
HEADPHONE

# SCHEMATIC DIAGRAM - 50

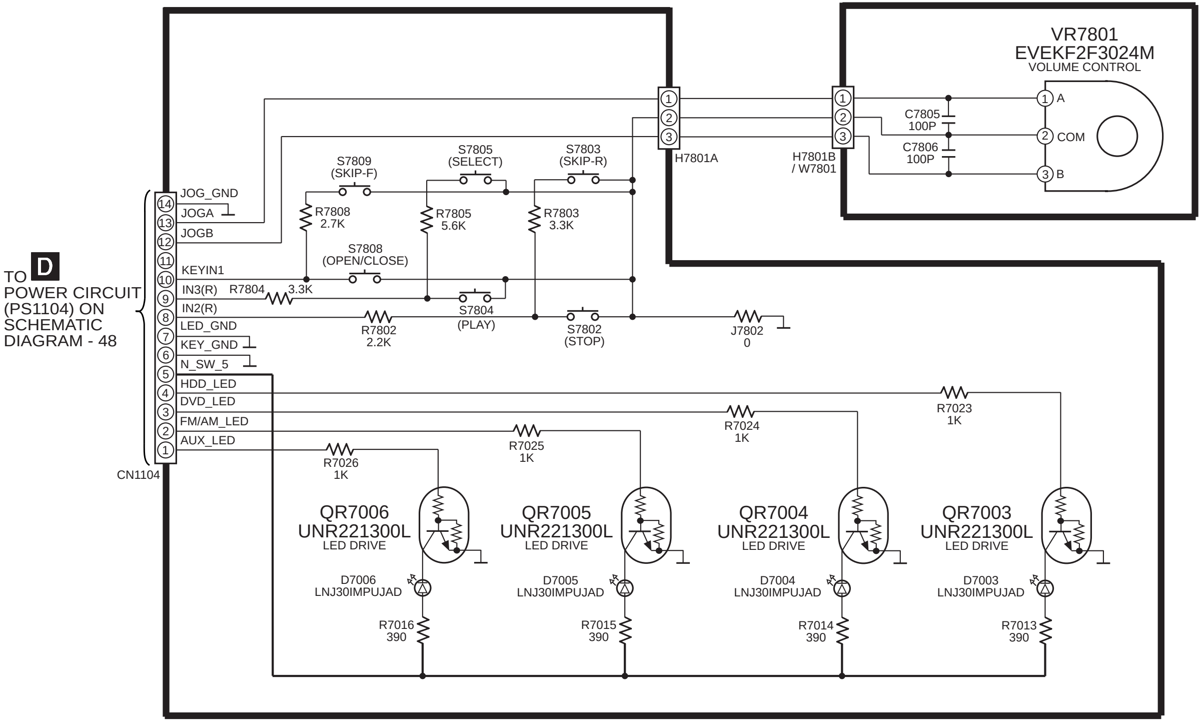
— : +B SIGNAL LINE ⇨ : VIDEO SIGNAL LINE ⇨ : MAIN SIGNAL LINE

## H TV TUNER INTERFACE CIRCUIT


TO B
MAIN 2 CIRCUIT (PP9705) ON SCHEMATIC DIAGRAM - 36
PS9705
① BTL
② SCL
③ SDA
④ REG5V
⑤ REG5V
⑥ GND
⑦ ROUT
⑧ AU_GND
⑨ LOUT
⑩ SDA2
⑪ SCL2
⑫ VIDEO_OUT
⑬ AFT
⑭
R7403 100
R7404 100
R7406 100
R7407 100
① AGC
② TU
③ NC
④ SCL
⑤ SDA
⑥ NC
⑦ REG 5V
⑧ NC
⑨ BTL
⑩ NC
⑪ IF OUT
⑫ IF IN
⑬ REG5V
⑭ NC
⑮ GND
⑯ *AFT(US)
⑰ AGCOUT
⑱ VIDEO OUT
⑲ NC
⑳ GND
(21) SCL
(22) SDA
(23) NC
(24) NC
(25) NC
(26) R OUT
(27) L OUT
TU7401
ENGD6201DR

## F PANEL_R CIRCUIT

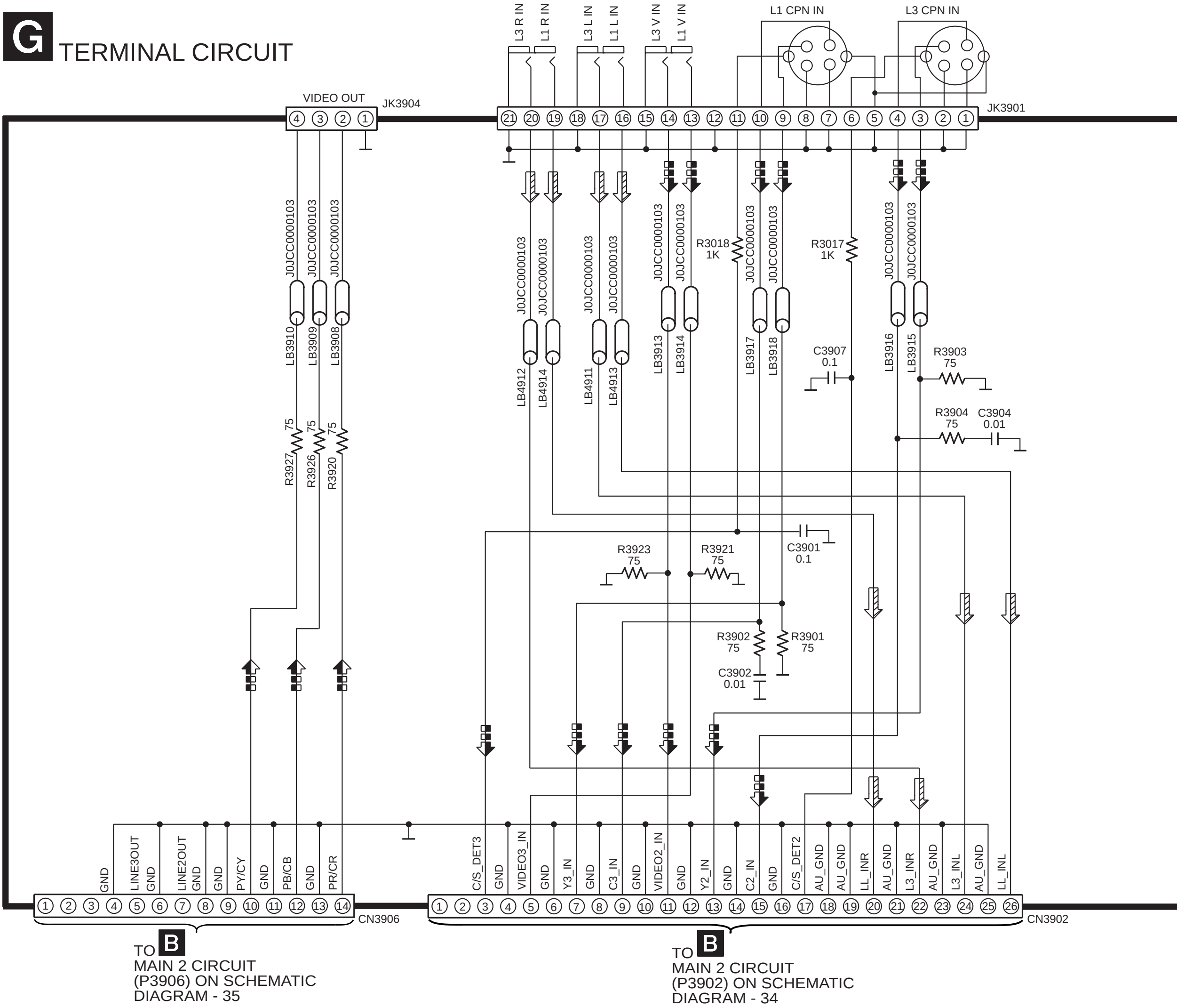
## I VOLUME CIRCUIT


VR7801
EVEKF2F3024M
VOLUME CONTROL
① A
② COM
③ B
C7805 100P
C7806 100P
H7801A
H7801B / W7801
TO D
POWER CIRCUIT (PS1104) ON SCHEMATIC DIAGRAM - 48
CN1104
⑭ JOG_GND
⑬ JOGA
⑫ JOGB
⑪ KEYIN1
⑩ IN3(R)
⑨ IN2(R)
⑧ LED_GND
⑦ KEY_GND
⑥ N_SW_5
⑤ HDD_LED
④ DVD_LED
③ FM/AM_LED
② AUX_LED
①
S7809 (SKIP-F)
S7805 (SELECT)
S7803 (SKIP-R)
S7808 (OPEN/CLOSE)
S7804 (PLAY)
S7802 (STOP)
R7808 2.7K
R7805 5.6K
R7803 3.3K
R7804 3.3K
R7802 2.2K
J7802 0
R7023 1K
R7024 1K
R7025 1K
R7026 1K
QR7006 UNR221300L LED DRIVE
QR7005 UNR221300L LED DRIVE
QR7004 UNR221300L LED DRIVE
QR7003 UNR221300L LED DRIVE
D7006 LNJ30IMPUJAD
D7005 LNJ30IMPUJAD
D7004 LNJ30IMPUJAD
D7003 LNJ30IMPUJAD
R7016 390
R7015 390
R7014 390
R7013 390

# SCHEMATIC DIAGRAM - 51

▮▮➡: VIDEO SIGNAL LINE ⇨: MAIN SIGNAL LINE

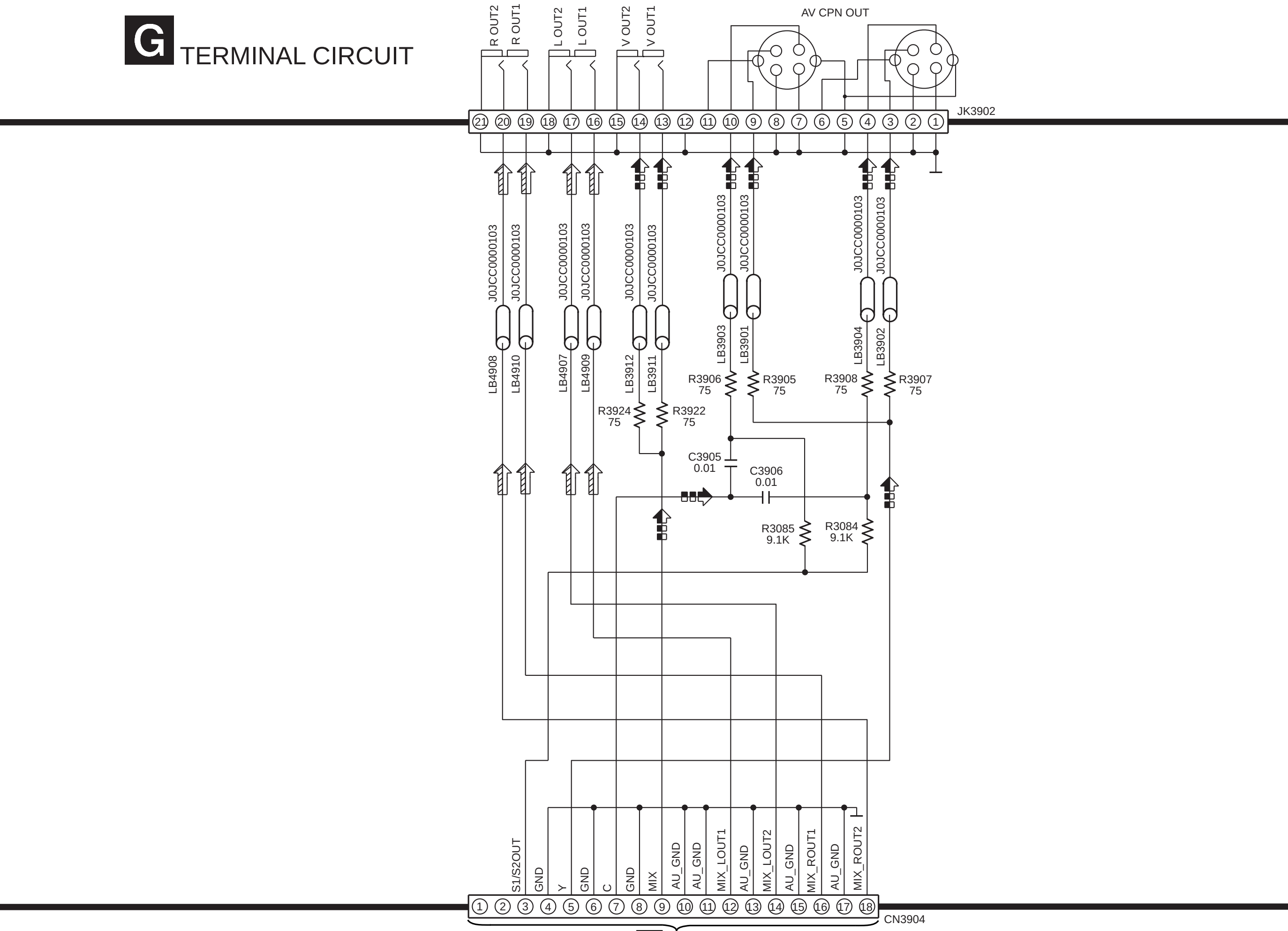
## G TERMINAL CIRCUIT


L3 R IN
L1 R IN
L3 L IN
L1 L IN
L3 V IN
L1 V IN
L1 CPN IN
L3 CPN IN
VIDEO OUT
JK3904
JK3901
J0JCC0000103
LB3910
LB3909
LB3908
LB4912
LB4914
LB4911
LB4913
LB3913
LB3914
LB3917
LB3918
LB3916
LB3915
R3927 75
R3926 75
R3920 75
R3018 1K
R3017 1K
C3907 0.1
R3903 75
R3904 75
C3904 0.01
C3901 0.1
R3923 75
R3921 75
R3902 75
R3901 75
C3902 0.01
GND
LINE3OUT
LINE2OUT
PY/CY
PB/CB
PR/CR
C/S_DET3
VIDEO3_IN
Y3_IN
C3_IN
VIDEO2_IN
Y2_IN
C2_IN
C/S_DET2
AU_GND
LL_INR
L3_INR
L3_INL
LL_INL
CN3906
CN3902
TO B
MAIN 2 CIRCUIT
(P3906) ON SCHEMATIC
DIAGRAM - 35
TO B
MAIN 2 CIRCUIT
(P3902) ON SCHEMATIC
DIAGRAM - 34

# SCHEMATIC DIAGRAM - 52

▮▮➡: VIDEO SIGNAL LINE ▨➡: MAIN SIGNAL LINE

## G TERMINAL CIRCUIT

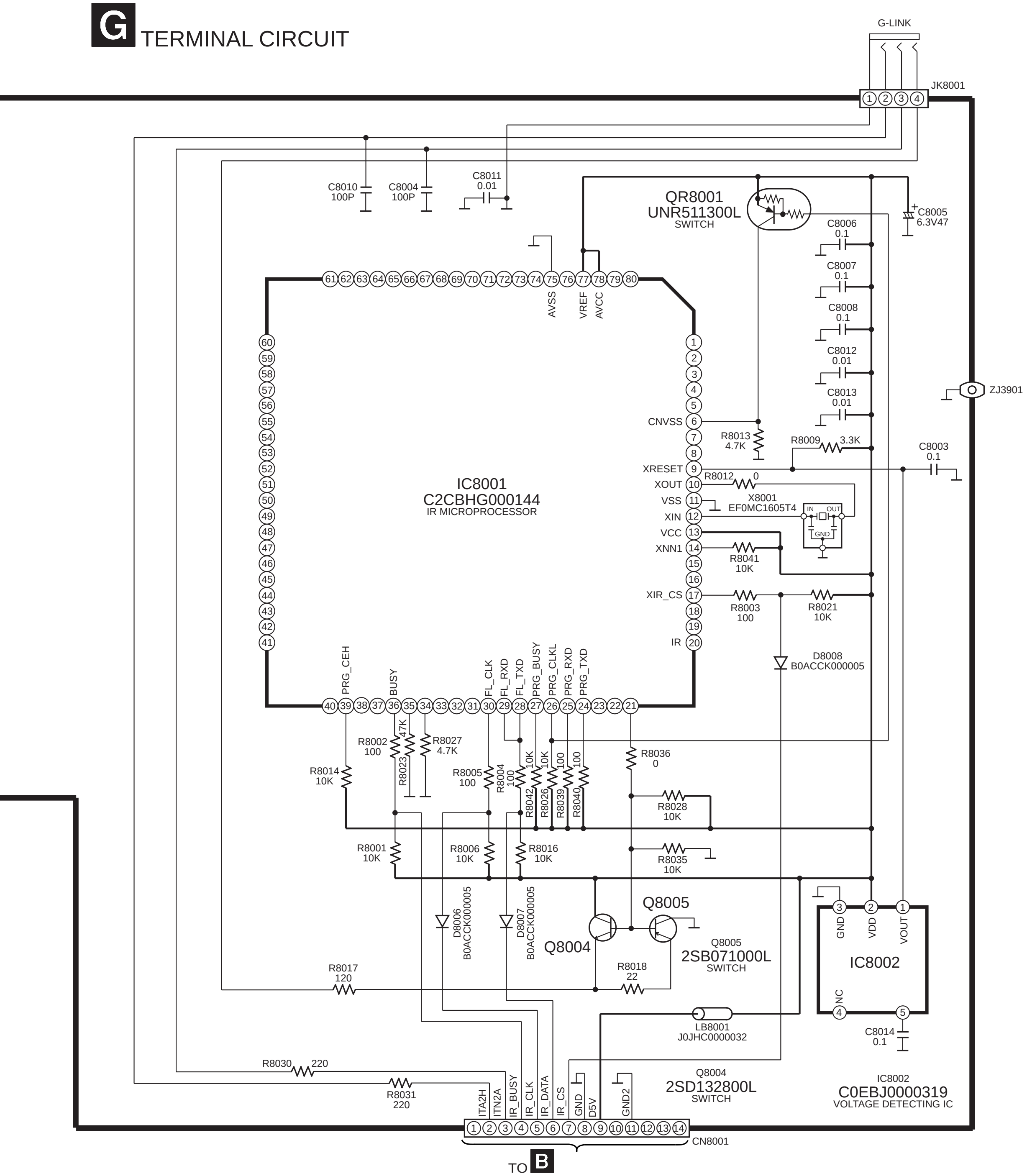

R OUT2
R OUT1
L OUT2
L OUT1
V OUT2
V OUT1
AV CPN OUT
JK3902
21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1
J0JCC0000103
LB4908
LB4910
LB4907
LB4909
LB3912
LB3911
LB3903
LB3901
LB3904
LB3902
R3924
75
R3922
75
R3906
75
R3905
75
R3908
75
R3907
75
C3905
0.01
C3906
0.01
R3085
9.1K
R3084
9.1K
S1/S2OUT
GND
Y
GND
C
GND
MIX
AU_GND
AU_GND
MIX_LOUT1
AU_GND
MIX_LOUT2
AU_GND
MIX_ROUT1
AU_GND
MIX_ROUT2
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18
CN3904

TO **B**
MAIN 2 CIRCUIT (P3904)
ON SCHEMATIC DIAGRAM - 34

# SCHEMATIC DIAGRAM - 53

—— : +B SIGNAL LINE

## G TERMINAL CIRCUIT



G-LINK
JK8001
1 2 3 4
C8010
100P
C8004
100P
C8011
0.01
QR8001
UNR511300L
SWITCH
C8005
6.3V47
C8006
0.1
C8007
0.1
C8008
0.1
C8012
0.01
C8013
0.01
ZJ3901
61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80
AVSS
VREF
AVCC
60 59 58 57 56 55 54 53 52 51 50 49 48 47 46 45 44 43 42 41
1 2 3 4 5
CNVSS 6
7
8
XRESET 9
XOUT 10
VSS 11
XIN 12
VCC 13
XNN1 14
15
16
XIR_CS 17
18
19
IR 20
IC8001
C2CBHG000144
IR MICROPROCESSOR
R8013
4.7K
R8009
3.3K
C8003
0.1
R8012
0
X8001
EF0MC1605T4
IN
OUT
GND
R8041
10K
R8003
100
R8021
10K
D8008
B0ACCK000005
PRG_CEH
BUSY
FL_CLK
FL_RXD
FL_TXD
PRG_BUSY
PRG_CLKL
PRG_RXD
PRG_TXD
40 39 38 37 36 35 34 33 32 31 30 29 28 27 26 25 24 23 22 21
R8002
100
47K
R8023
R8027
4.7K
R8014
10K
R8005
100
R8004
100
10K
R8042
10K
R8026
100
R8039
100
R8040
R8036
0
R8028
10K
R8001
10K
R8006
10K
R8016
10K
R8035
10K
D8006
B0ACCK000005
D8007
B0ACCK000005
Q8004
Q8005
Q8005
2SB071000L
SWITCH
R8017
120
R8018
22
3 2 1
GND
VDD
VOUT
IC8002
NC
4 5
C8014
0.1
LB8001
J0JHC0000032
R8030
220
R8031
220
Q8004
2SD132800L
SWITCH
IC8002
C0EBJ0000319
VOLTAGE DETECTING IC
ITA2H
ITN2A
IR_BUSY
IR_CLK
IR_DATA
IR_CS
GND
D5V
GND2
1 2 3 4 5 6 7 8 9 10 11 12 13 14
CN8001

TO B
MAIN 2 CIRCUIT (P3908)
ON SCHEMATIC DIAGRAM - 33

# DIGITAL P.C.B.

| | | |
|---|---|---|
| Integrated Circuit | | |
| IC3401 | E-6 | C |
| IC3402 | D-6 | C |
| IC3404 | D-5 | C |
| IC3406 | E-2 | F |
| IC3408 | D-3 | C |
| IC3409 | E-1 | F |
| IC3501 | D-5 | F |
| IC3502 | D-2 | C |
| IC4404 | E-6 | F |
| IC4406 | E-6 | F |
| IC4407 | D-6 | F |
| IC4408 | E-7 | F |
| IC4409 | E-7 | F |
| IC6001 | C-3 | F |
| IC6002 | C-3 | F |
| IC6003 | C-6 | C |
| IC6004 | B-3 | F |
| IC6005 | C-6 | C |
| IC6006 | C-5 | C |
| IC6701 | B-3 | C |
| IC6703 | C-1 | C |
| IC50001 | E-4 | F |
| IC50002 | E-3 | F |
| Transistor | | |
| Q6001 | D-4 | C |
| Q6002 | D-4 | C |
| Q6701 | C-2 | C |
| Q6702 | C-2 | C |
| Q6703 | C-2 | C |
| Q6704 | C-2 | C |
| Q6705 | C-2 | C |
| Q50001 | E-4 | C |
| Q50002 | E-4 | C |
| Q50003 | E-4 | C |
| Q50004 | E-4 | C |
| Q50005 | E-4 | C |
| Transistor-resistor | | |
| QR3502 | D-6 | F |
| QR3503 | D-6 | F |
| Test Point | | |
| CKA1 | C-2 | 4 |
| CKA2 | B-2 | F |
| CKA3 | B-2 | F |
| CKA4 | B-2 | F |
| CKA5 | B-3 | F |
| CKA7 | B-2 | F |
| CKA8 | B-3 | F |
| CKA9 | B-2 | F |
| CKA10 | B-3 | F |
| CKA11 | B-2 | F |
| CKA12 | B-3 | F |
| CKA13 | D-4 | F |
| CKA14 | D-4 | F |
| CKA18 | C-3 | F |
| CKA21 | C-2 | F |
| CKA23 | C-2 | F |
| CKA24 | C-3 | F |
| CKA25 | C-2 | F |
| CKA26 | C-3 | F |
| CKA27 | C-3 | F |
| CKA28 | C-2 | F |
| CKA30 | C-2 | F |
| CKA31 | D-2 | F |
| CKA32 | D-2 | F |
| CKA33 | D-2 | F |
| CKA34 | D-2 | F |
| CKA36 | E-1 | F |
| CKA37 | A-2 | F |
| CKA38 | A-2 | F |
| CKA39 | A-2 | F |
| CKA40 | A-2 | F |
| CKA42 | D-5 | F |
| CKA43 | D-5 | F |
| CKA44 | B-2 | F |
| CKA45 | B-2 | F |
| CKA46 | B-2 | F |
| CKA47 | B-2 | F |
| CKA48 | C-2 | F |
| CKA49 | C-2 | F |
| CKA51 | C-2 | F |
| CKA52 | C-2 | F |
| CKA53 | C-2 | F |
| CKA54 | E-1 | F |
| CKA56 | C-2 | F |
| CKA58 | C-2 | F |
| CKA59 | C-2 | F |
| CKA60 | C-2 | F |
| CKA61 | C-2 | F |
| CKA62 | C-2 | F |
| CKA63 | C-2 | F |
| CKA65 | D-2 | F |
| CKA66 | D-2 | F |
| CKA67 | D-2 | F |
| CKA68 | D-2 | F |
| CKA69 | D-2 | F |
| CKA70 | B-1 | F |
| CKC19 | B-3 | F |
| CKC20 | C-3 | F |
| CKC22 | A-2 | F |
| CKC24 | B-3 | F |
| CKC25 | C-3 | F |
| CKC27 | A-2 | F |
| CKC29 | C-4 | F |
| CKC30 | B-3 | F |
| CKC32 | C-2 | F |
| CKC33 | D-4 | F |
| CKC35 | A-2 | F |
| CKC36 | B-4 | F |
| CKC37 | A-2 | F |
| CKC38 | A-2 | F |
| CKC39 | A-2 | F |
| CKC41 | B-4 | F |
| CKC42 | B-4 | F |
| CKC43 | B-4 | F |
| CKC44 | A-2 | F |
| CKC45 | A-2 | F |
| CKC46 | B-2 | F |
| CKC47 | B-4 | F |
| CKC48 | B-3 | F |
| CKC49 | B-4 | F |
| CKC51 | B-4 | F |
| CKC52 | B-4 | F |
| CKC53 | B-2 | F |
| CKC54 | B-2 | F |
| CKC55 | A-2 | F |
| CKC56 | A-2 | F |
| CKC57 | B-2 | F |
| CKC58 | B-2 | F |
| CKC59 | B-2 | F |
| CKC61 | B-2 | F |
| CKC62 | E-1 | F |
| CKC63 | B-2 | F |
| CKC64 | E-1 | F |
| CKC65 | E-1 | F |
| CKC66 | E-1 | F |
| CKC67 | F-1 | F |
| CKC68 | E-1 | F |
| CKC69 | E-1 | F |
| CKC88 | A-1 | F |
| CKC93 | C-1 | F |
| CKC94 | C-1 | F |
| CKC95 | C-1 | F |
| CKC96 | C-1 | F |
| CKC97 | C-1 | F |
| CKC98 | C-1 | F |
| CKC99 | C-1 | F |
| CKC100 | C-1 | F |
| CKC102 | C-1 | F |
| CKC103 | C-1 | F |
| CKC105 | C-1 | F |
| CKC106 | C-1 | F |
| CKC108 | D-1 | F |
| CKC109 | D-1 | F |
| CKC112 | D-1 | F |
| CKC113 | D-1 | F |
| CKC114 | E-1 | F |
| CKC115 | D-2 | F |
| CKC116 | E-1 | F |
| CKC117 | D-2 | F |
| CKC118 | E-1 | F |
| CKC119 | D-2 | F |
| CKC121 | D-2 | F |
| CKC122 | E-1 | F |
| CKC123 | D-1 | F |
| CKC124 | D-1 | F |
| CKC125 | D-1 | F |
| CKC126 | D-1 | F |
| CKC127 | D-1 | F |
| CKC128 | D-1 | F |
| CKC129 | D-1 | F |
| CKC131 | D-1 | F |
| CKC132 | E-1 | F |
| CKC133 | E-1 | F |
| CKC134 | E-1 | F |
| CKC135 | E-1 | F |
| CKC136 | E-1 | F |
| CKC137 | E-1 | F |
| CKC138 | E-1 | F |
| CKC139 | E-1 | F |
| CKF1 | C-6 | F |
| CKF3 | C-7 | F |
| CKF4 | C-7 | F |
| CKF5 | C-7 | F |
| CKF6 | C-7 | F |
| CKF8 | C-7 | F |
| CKF10 | C-7 | F |
| CKF12 | C-7 | F |
| CKF14 | D-6 | F |
| CKF16 | C-7 | F |
| CKF18 | C-7 | F |
| CKF20 | C-7 | F |
| CKF23 | D-7 | F |
| CKF24 | D-7 | F |
| CKF25 | D-7 | F |
| CKF26 | D-7 | F |
| CKF27 | D-7 | F |
| CKF28 | D-7 | F |
| CKF29 | D-7 | F |
| CKF30 | D-7 | F |
| CKF31 | D-7 | F |
| CKF32 | D-7 | F |
| CKF33 | D-7 | F |
| CKF34 | D-7 | F |
| CKF35 | D-7 | F |
| CKF36 | D-7 | F |
| CKF37 | E-7 | F |
| CKF38 | E-7 | F |
| CKF40 | D-6 | F |
| CKG3 | E-5 | F |
| CKG5 | E-5 | F |
| CKG7 | E-5 | F |
| CKG9 | E-5 | F |
| CKG11 | E-5 | F |
| CKG13 | E-5 | F |
| CKG14 | E-5 | F |
| CKH1 | B-2 | C |
| CKH2 | B-2 | C |
| CKH5 | B-2 | C |
| CKH6 | B-2 | C |
| CKJ1 | E-5 | C |
| CKJ2 | E-5 | C |
| CKJ5 | E-5 | C |
| CKJ6 | E-5 | C |
| CKJ9 | E-4 | C |
| CKJ10 | E-4 | C |
| CKJ13 | E-4 | C |
| CKJ15 | E-4 | C |
| CKJ18 | E-4 | C |
| CKJ19 | E-4 | C |
| CKJ21 | E-4 | C |
| CKJ22 | E-4 | C |
| CKJ23 | E-4 | C |
| CKJ25 | E-4 | C |
| CKJ26 | E-4 | C |
| CKJ27 | E-4 | C |
| CKJ29 | E-4 | C |
| CKJ30 | E-4 | C |
| CKJ31 | E-4 | C |
| CKJ33 | E-3 | C |
| CKJ34 | E-3 | C |
| CKJ35 | E-3 | C |
| CKJ37 | E-3 | C |
| CKJ38 | E-3 | C |
| CKJ39 | E-3 | C |
| CKJ41 | E-3 | C |
| CKJ42 | E-3 | C |
| CKJ45 | E-3 | C |
| CKJ47 | E-4 | C |
| CKJ48 | E-3 | C |
| CKJ50 | E-3 | C |
| CKJ52 | E-3 | C |
| CKJ58 | E-2 | C |
| CKJ62 | E-2 | C |
| CKJ65 | D-2 | C |
| CKJ66 | E-2 | C |
| CKJ68 | E-2 | C |
| CKJ69 | D-2 | C |
| CKJ70 | F-2 | C |
| CKJ72 | F-2 | C |
| CKJ74 | E-2 | C |
| CKJ75 | F-5 | C |
| CKJ78 | E-2 | C |
| CKJ79 | E-3 | C |
| CKJ81 | E-3 | C |
| CKJ82 | E-3 | C |
| CKJ83 | E-7 | C |
| CKJ94 | E-3 | C |
| CL3401 | E-6 | C |
| CL3402 | E-5 | c |
| CL3403 | F-6 | C |
| CL3404 | F-6 | C |
| CL3405 | F-6 | C |
| CL3406 | F-6 | C |
| CL3407 | E-6 | C |
| CL3408 | E-5 | C |
| CL3409 | E-5 | C |
| CL3410 | F-6 | C |
| CL3426 | D-5 | C |
| CL3427 | D-5 | C |
| CL3428 | E-5 | C |
| CL3429 | D-4 | C |
| CL3430 | D-5 | C |
| CL3431 | D-5 | C |
| CL3432 | D-5 | C |
| CL6001 | B-3 | F |
| CL6002 | D-3 | F |
| CL6003 | B-4 | F |
| CL6004 | D-3 | F |
| CL6005 | D-3 | F |
| CL6006 | D-3 | F |
| CL6007 | D-3 | F |
| CL6701 | A-2 | C |
| CL6702 | B-4 | C |
| CL6703 | B-4 | C |
| CL6704 | B-4 | C |
| CL6705 | B-4 | C |
| CL6706 | C-3 | C |
| CL6707 | C-3 | C |
| CL6708 | C-3 | C |
| CL6709 | C-3 | C |
| CL6710 | C-4 | C |
| CL6711 | A-3 | C |
| CL6712 | C-3 | C |
| CL6713 | C-4 | C |
| CL6714 | C-3 | C |
| CL6715 | C-4 | C |
| CL6717 | B-4 | C |
| CL6718 | A-3 | C |
| CL6719 | A-3 | C |
| CL6720 | A-3 | C |
| CL6721 | A-3 | C |
| CL6722 | B-2 | C |
| CL6723 | B-3 | C |
| CL6724 | B-2 | C |
| CL6725 | B-3 | C |
| CL6726 | B-3 | C |
| CL6727 | B-2 | C |
| CL6728 | B-2 | C |
| CL6729 | B-2 | C |
| CL6730 | B-2 | C |
| CL6731 | B-2 | C |
| CL6732 | B-1 | C |
| CL6733 | B-2 | C |
| CL6734 | B-2 | C |
| CL6735 | B-2 | C |
| CL6736 | B-2 | C |
| CL6737 | B-2 | C |
| CL6738 | B-2 | C |
| CL6744 | B-2 | C |
| CL6745 | B-2 | C |
| CL6746 | B-2 | C |
| CL6747 | B-2 | C |
| CL6748 | A-3 | C |
| CL6749 | A-3 | C |
| CL9006 | A-3 | C |
| CL9019 | A-3 | C |
| CL9022 | A-3 | C |
| CL9023 | A-3 | C |
| CL9024 | A-3 | C |
| CL9025 | A-3 | C |
| CL9028 | A-3 | C |
| CL9029 | A-4 | C |
| CL37001 | C-6 | F |
| CL37002 | C-6 | F |
| CL37003 | C-6 | F |
| CL37004 | C-6 | F |
| CL37005 | C-6 | F |
| CL37006 | C-6 | F |
| CL37007 | B-6 | F |
| CL37008 | B-6 | F |
| CL37009 | B-6 | F |
| CL37010 | B-6 | F |
| CL37011 | C-6 | F |
| CL37012 | C-6 | F |
| CL37013 | C-6 | F |
| CL50001 | D-3 | F |
| CL50005 | B-3 | F |
| CL50006 | B-3 | F |
| CL50007 | B-4 | F |
| CL50008 | D-3 | F |
| CL50009 | D-3 | F |
| TL6001 | A-5 | F |
| TL6002 | A-5 | F |
| TL6003 | A-5 | F |
| TL6004 | B-6 | F |
| TL6005 | B-6 | F |
| TL6006 | B-6 | F |
| Connector | | |
| FP3501 | D-7 | F |
| P6002 | B-4 | F |
| P9001 | E-3 | C |
| Diode | | |
| D3401 | E-5 | C |
| D3402 | E-6 | C |
| D4401 | E-7 | F |
| Crystal Oscillator | | |
| X3401 | E-2 | F |
| X3501 | D-5 | F |
| Coil | | |
| LB3404 | D-7 | C |
| LB3405 | C-6 | C |
| LB3408 | C-3 | C |
| LB3409 | D-3 | C |
| LB4401 | E-7 | F |
| LB4402 | E-6 | F |
| LB4403 | E-7 | F |
| LB4404 | D-5 | F |
| LB4405 | E-6 | F |
| LB6001 | C-5 | C |
| LB6002 | B-6 | C |
| LB6003 | C-4 | C |
| LB6004 | C-5 | C |
| LB9001 | E-4 | C |
| LB9002 | E-4 | C |
| LB9006 | E-3 | C |
| LB9007 | E-2 | C |
| LB9008 | F-2 | C |
| LB9009 | F-2 | C |
| LB50001 | F-5 | C |
| LB50002 | E-4 | F |
| LB50003 | D-3 | F |
| LB50004 | D-3 | F |
| LB50005 | E-2 | F |
| Filter | | |
| FL3401 | F-5 | C |
| FL3402 | E-6 | C |
| FL3404 | E-5 | C |
| FL3406 | E-6 | C |
| FL3407 | E-6 | C |
| FL3409 | E-7 | C |
| FL3410 | D-7 | C |
| FL3411 | C-6 | C |
| FL3412 | E-2 | F |
| FL3414 | D-5 | C |
| FL3415 | D-5 | C |
| FL3416 | D-5 | C |
| FL3417 | C-5 | C |
| FL3418 | D-4 | C |
| FL3419 | C-5 | C |
| FL3420 | D-4 | C |
| FL3421 | D-6 | C |
| FL3422 | E-5 | C |
| FL3423 | E-5 | C |
| FL3424 | D-4 | C |
| FL3425 | D-4 | C |
| FL3426 | D-5 | C |
| FL3429 | E-2 | F |
| FL3431 | E-2 | F |
| FL3433 | E-1 | F |
| FL3434 | C-3 | C |
| FL3435 | D-3 | C |
| FL3501 | E-1 | C |
| FL3502 | C-1 | C |
| FL3505 | C-5 | F |
| FL3506 | C-5 | F |
| FL3507 | D-5 | F |
| FL3508 | C-6 | F |
| FL3509 | D-6 | F |
| FL3510 | D-5 | F |
| FL3511 | D-5 | F |
| FL3512 | D-6 | F |
| FL3513 | D-6 | F |
| FL3514 | C-5 | F |
| FL3515 | C-6 | F |
| FL3516 | D-6 | F |
| FL4403 | E-7 | F |
| FL4404 | E-6 | F |
| FL4405 | D-5 | F |
| FL6001 | C-6 | C |
| FL6002 | B-3 | F |
| FL6003 | D-3 | F |
| FL6004 | D-4 | F |
| FL6005 | D-4 | F |
| FL6006 | C-4 | F |
| FL6007 | C-4 | C |
| FL6008 | D-4 | F |
| FL6009 | C-4 | F |
| FL6010 | C-4 | F |
| FL6011 | C-4 | F |
| FL6012 | D-4 | F |
| FL6013 | C-4 | F |
| FL6014 | D-4 | F |
| FL6015 | C-4 | F |
| FL6016 | D-4 | F |
| FL6017 | B-4 | F |
| FL6018 | C-5 | C |
| FL6020 | B-4 | F |
| FL6021 | D-3 | F |
| FL6022 | B-5 | C |
| FL6023 | B-6 | C |
| FL6701 | B-4 | C |
| FL6702 | C-4 | C |
| FL6703 | C-1 | C |

|  |  |  |
|---|---|---|
| FL50001 | E-4 | F |
| FL50002 | D-3 | F |
| FL50003 | D-3 | F |
| FL50004 | E-2 | F |
| FL50005 | C-3 | F |
| FL50006 | C-3 | F |
| Capacitor |  |  |
| C3401 | E-2 | F |
| C3402 | E-6 | C |
| C3403 | F-6 | C |
| C3404 | E-5 | C |
| C3405 | E-5 | C |
| C3406 | F-6 | C |
| C3407 | E-2 | F |
| C3408 | E-2 | F |
| C3410 | F-6 | C |
| C3411 | E-6 | C |
| C3417 | F-5 | C |
| C3418 | F-5 | C |
| C3419 | E-5 | C |
| C3420 | E-5 | C |
| C3421 | E-5 | C |
| C3422 | E-5 | C |
| C3423 | E-5 | C |
| C3424 | E-5 | C |
| C3425 | E-5 | C |
| C3426 | E-5 | C |
| C3427 | E-5 | C |
| C3428 | E-5 | C |
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| C3430 | E-6 | C |
| C3431 | E-6 | C |
| C3432 | E-6 | C |
| C3433 | E-6 | C |
| C3435 | E-6 | C |
| C3436 | E-6 | C |
| C3440 | E-7 | C |
| C3441 | E-2 | F |
| C3502 | C-7 | F |
| C4411 | E-6 | F |
| C4412 | E-2 | C |
| C4413 | E-1 | C |
| C4414 | E-6 | F |
| C4415 | E-5 | F |
| C4416 | D-4 | C |
| C4417 | E-6 | F |
| C4418 | D-3 | C |
| C4421 | E-3 | C |
| C4422 | E-1 | C |
| C4423 | D-3 | C |
| C4424 | F-4 | F |
| C4425 | F-6 | F |
| C4426 | E-5 | F |
| C4427 | E-2 | C |
| C4428 | E-6 | F |
| C4429 | E-6 | F |
| C4430 | E-6 | F |
| C4431 | E-6 | F |
| C4432 | E-7 | F |
| C4433 | E-1 | C |
| C4434 | E-7 | F |
| C6001 | D-3 | F |
| C6002 | D-4 | F |
| C6003 | C-3 | F |
| C9001 | E-4 | C |
| C9002 | E-4 | C |
| C50001 | C-3 | F |
| C50002 | C-5 | C |
| C50004 | C-5 | C |
| C50005 | F-5 | C |
| Resistor |  |  |
| R3405 | E-5 | C |
| R3407 | E-5 | C |
| R3409 | E-6 | C |
| R3410 | E-6 | C |
| R3411 | E-6 | C |
| R3412 | E-6 | C |
| R3414 | E-2 | F |
| R3416 | E-6 | C |
| R3417 | E-6 | C |
| R3418 | E-6 | C |
| R3419 | D-5 | C |
| R3420 | D-5 | C |
| R3421 | D-5 | C |
| R3422 | E-5 | C |
| R3423 | E-5 | C |
| R3427 | E-5 | C |
| R3430 | D-5 | C |
| R3432 | E-5 | C |
| R3433 | D-4 | C |
| R3434 | E-5 | C |
| R3436 | E-2 | F |
| R3440 | D-4 | C |
| R3442 | D-4 | C |
| R3443 | D-4 | C |
| R3444 | D-4 | C |
| R3445 | D-2 | F |
| R3447 | E-2 | F |
| R3448 | E-2 | F |
| R3449 | E-2 | F |
| R3450 | E-2 | F |
| R3451 | E-2 | F |
| R3452 | D-2 | F |
| R3453 | D-2 | F |
| R3454 | E-2 | F |
| R3455 | D-2 | F |
| R3456 | D-2 | F |
| R3457 | E-2 | F |
| R3458 | D-2 | F |
| R3460 | D-2 | F |
| R3461 | E-2 | F |
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| R3472 | D-4 | C |
| R3473 | D-5 | C |
| R3476 | E-5 | C |
| R3501 | C-5 | C |
| R3502 | C-5 | F |
| R3503 | C-5 | F |
| R3509 | C-5 | F |
| R3510 | D-5 | F |
| R3511 | D-5 | F |
| R3514 | D-5 | F |
| R3519 | D-6 | F |
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| R3523 | D-6 | F |
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| R3525 | D-6 | F |
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| R3528 | C-6 | F |
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| R3531 | C-7 | F |
| R3532 | D-6 | F |
| R3533 | C-7 | F |
| R3535 | C-7 | F |
| R3537 | C-7 | F |
| R3541 | D-6 | F |
| R3542 | D-6 | F |
| R3543 | D-7 | F |
| R3548 | D-6 | F |
| R4418 | E-7 | F |
| R4419 | E-7 | F |
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| R4426 | F-2 | C |
| R4427 | F-2 | C |
| R4428 | E-6 | F |
| R4433 | E-5 | F |
| R4434 | E-6 | F |
| R4435 | E-6 | F |
| R4436 | E-6 | F |
| R4437 | E-6 | F |
| R4438 | D-6 | F |
| R4439 | D-6 | F |
| R4450 | E-7 | F |
| R4451 | E-7 | F |
| R4452 | E-6 | F |
| R4453 | E-7 | F |
| R4454 | D-6 | F |
| R4455 | D-6 | F |
| R4456 | E-6 | F |
| R4457 | E-7 | F |
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| R6002 | C-3 | F |
| R6003 | C-4 | F |
| R6004 | E-4 | C |
| R6005 | D-4 | C |
| R6006 | D-4 | C |
| R6007 | D-4 | C |
| R6008 | C-6 | C |
| R6009 | C-4 | F |
| R6010 | C-4 | F |
| R6011 | C-4 | C |
| R6013 | B-4 | F |
| R6014 | A-5 | F |
| R6015 | A-5 | F |
| R6016 | A-5 | F |
| R6017 | B-4 | F |
| R6018 | B-3 | F |
| R6019 | B-3 | F |
| R6020 | B-3 | F |
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| R6022 | B-3 | F |
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| R6025 | D-3 | F |
| R6028 | D-3 | F |
| R6029 | C-3 | F |
| R6031 | D-3 | F |
| R6035 | D-3 | F |
| R6036 | D-3 | F |
| R6037 | D-3 | F |
| R6039 | D-3 | F |
| R6040 | C-5 | C |
| R6701 | A-2 | C |
| R6703 | B-1 | C |
| R6706 | B-3 | C |
| R6707 | B-3 | C |
| R6709 | A-3 | C |
| R6710 | A-3 | C |
| R6711 | B-4 | C |
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| R6730 | C-2 | C |
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| R6735 | C-2 | C |
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| R6738 | B-2 | C |
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| R50004 | D-3 | F |
| R50005 | D-3 | F |
| R50006 | D-3 | F |
| R50007 | D-3 | F |
| R50008 | D-3 | F |
| R50009 | D-3 | F |
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| R50011 | C-3 | F |
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| RX3407 | C-7 | C |
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| RX6032 | B-3 | F |
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| RX6037 | C-3 | F |
| RX6038 | D-4 | F |
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| RX6042 | B-6 | C |
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| RX6704 | B-3 | C |
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| RX6708 | B-4 | C |
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| RX6736 | B-2 | C |
| RX6737 | B-2 | C |
| RX6738 | C-4 | C |
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| RX50003 | D-4 | F |
| RX50004 | D-4 | F |
| RX50005 | D-3 | F |
| RX50006 | D-3 | F |
| RX50007 | E-2 | F |
| RX50008 | E-2 | F |
| RX50009 | D-4 | F |
| RX50010 | D-4 | F |
| RX50011 | D-4 | F |
| RX50012 | D-4 | F |
| RX50013 | D-4 | F |
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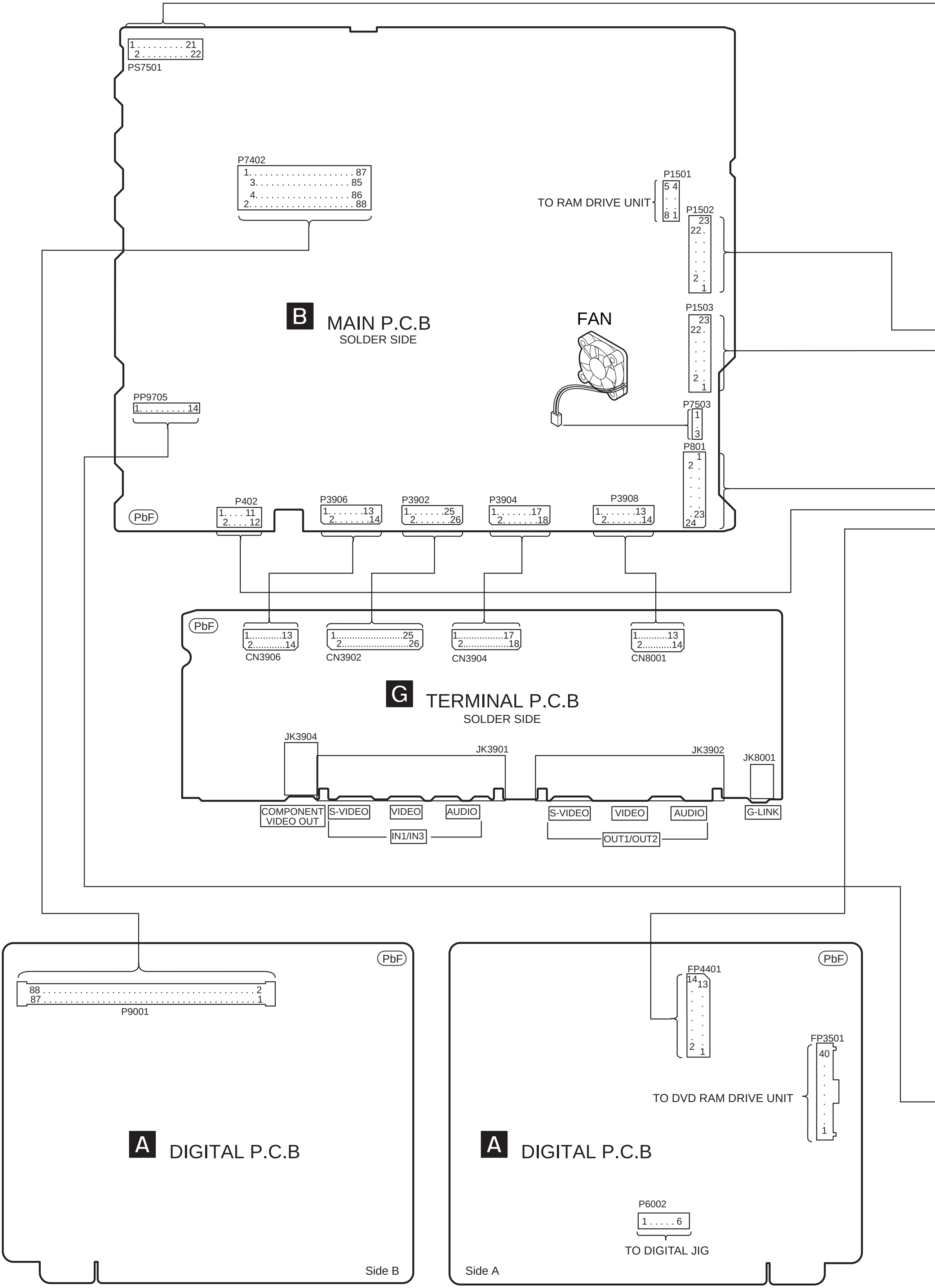
| RX50015 | D-3 | F |
| RX50016 | D-3 | F |

ADDRESS INFORMATION
C…… COMPONENT
F……. FOIL SIDE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2 . . . . . . . . . 22
P7402
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8 1
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P1502
23
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2
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SOLDER SIDE
FAN
P1503
23
22
2
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PP9705
1. . . . . . . . . 14
P7503
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P801
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2
23
24
PbF
P402
1. . . . 11
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P3906
1. . . . . . .13
2. . . . . . .14
P3902
1. . . . . . .25
2. . . . . . .26
P3904
1. . . . . . .17
2. . . . . . .18
P3908
1. . . . . . .13
2. . . . . . .14
PbF
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2...........14
CN3906
1........................25
2........................26
CN3902
1................17
2................18
CN3904
1..........13
2..........14
CN8001
G
TERMINAL P.C.B
SOLDER SIDE
JK3904
JK3901
JK3902
JK8001
COMPONENT VIDEO OUT
S-VIDEO
VIDEO
AUDIO
IN1/IN3
S-VIDEO
VIDEO
AUDIO
OUT1/OUT2
G-LINK
PbF
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A
DIGITAL P.C.B
Side B
PbF
FP4401
14
13
2
1
FP3501
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TO DVD RAM DRIVE UNIT
A
DIGITAL P.C.B
P6002
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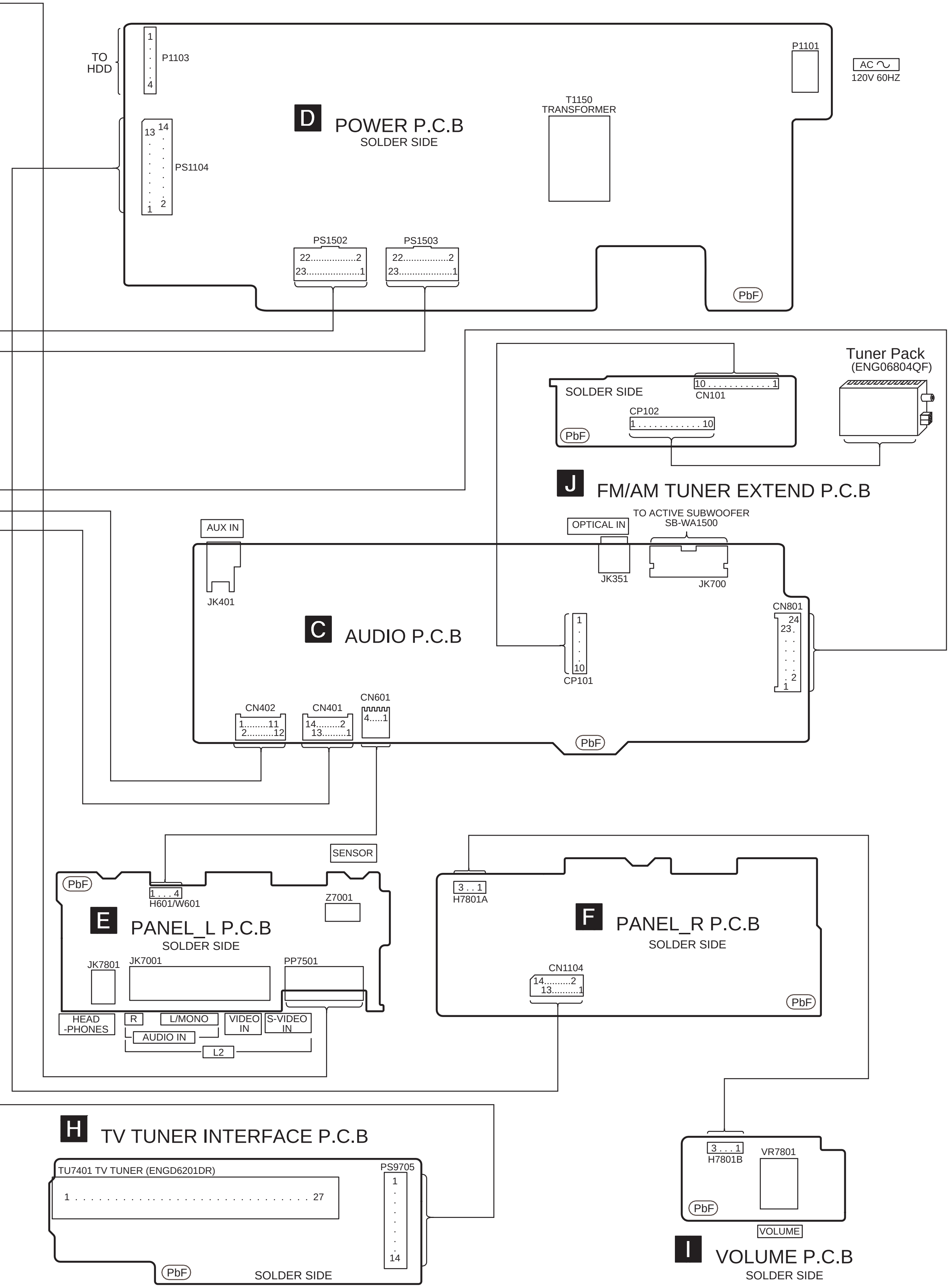
TO DIGITAL JIG
Side A


TO HDD
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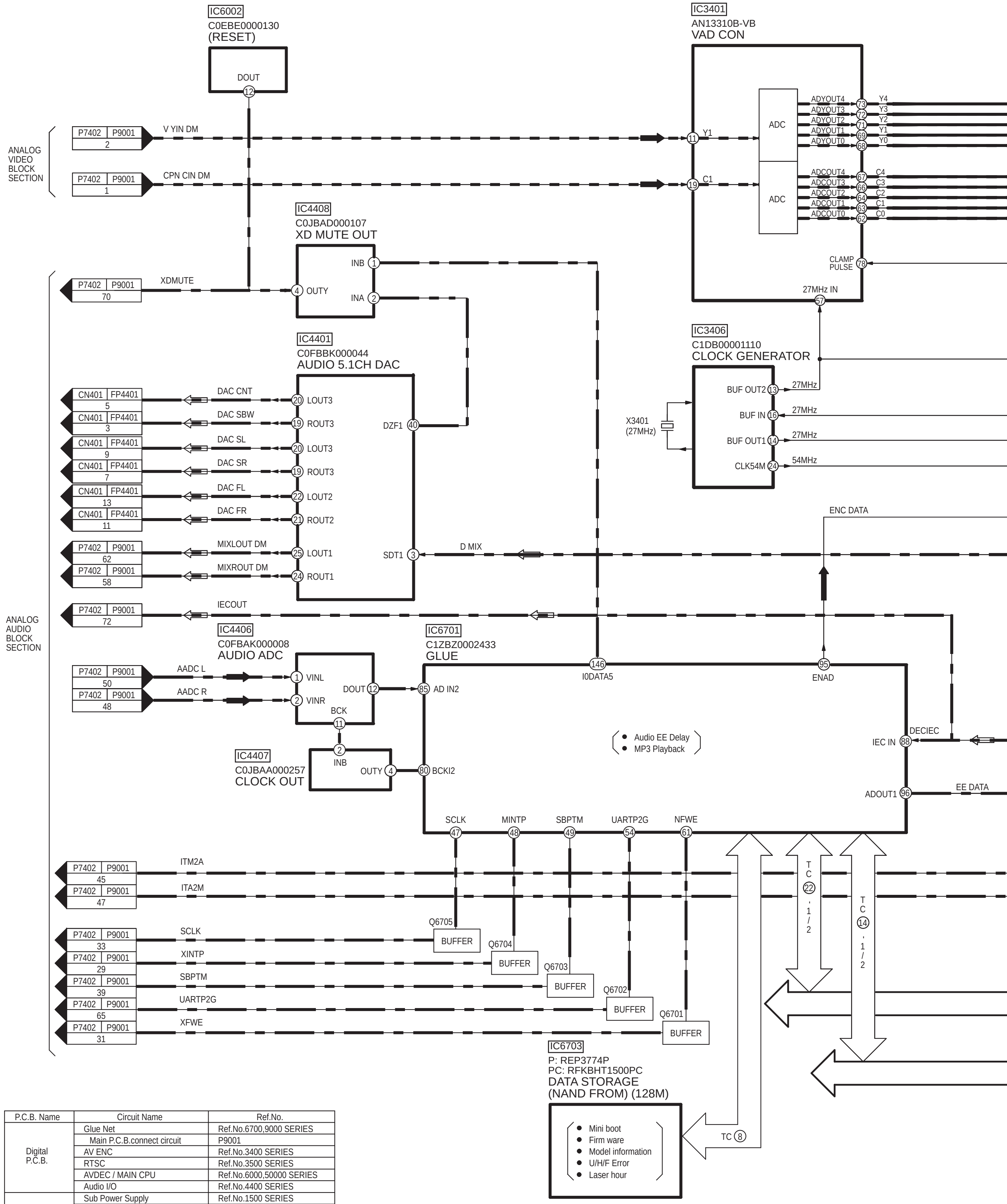
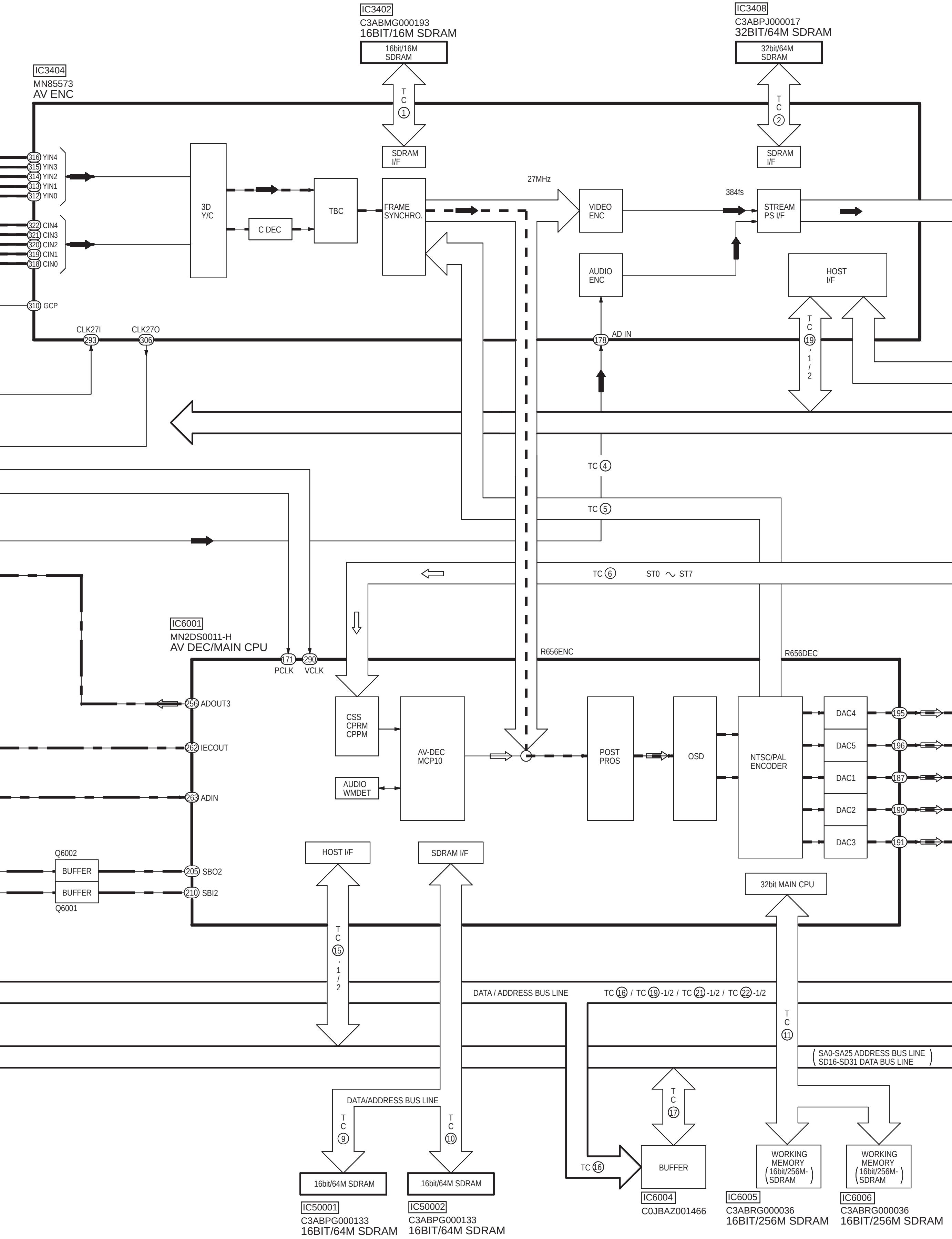
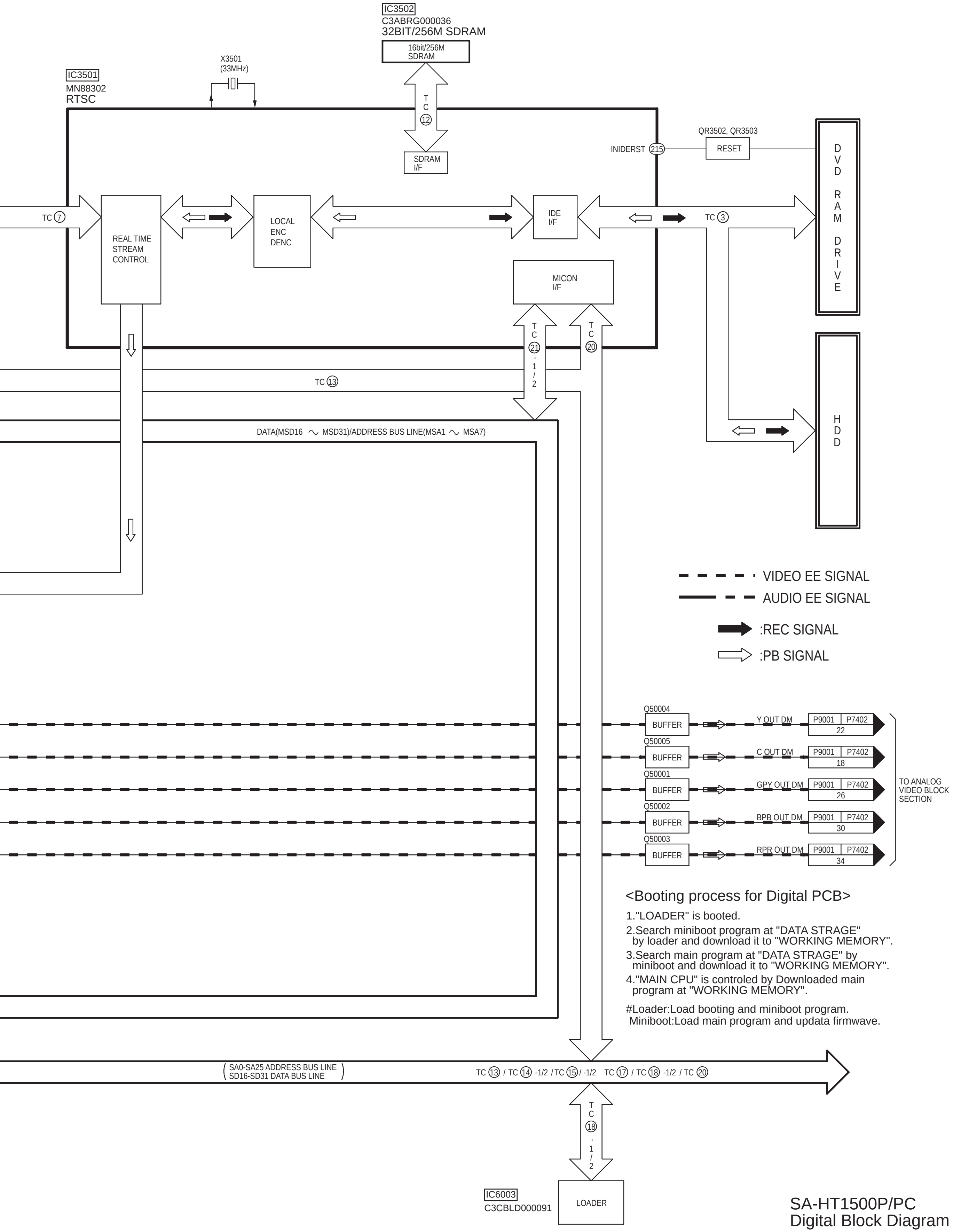
4
PS1104
13
14
1
2
D
POWER P.C.B
SOLDER SIDE
T1150
TRANSFORMER
P1101
AC ∿
120V 60HZ
PS1502
22.................2
23....................1
PS1503
22.................2
23....................1
PbF
Tuner Pack
(ENG06804QF)
SOLDER SIDE
10 . . . . . . . . . . . . 1
CN101
CP102
1 . . . . . . . . . . . . 10
PbF
J
FM/AM TUNER EXTEND P.C.B
AUX IN
OPTICAL IN
TO ACTIVE SUBWOOFER
SB-WA1500
JK401
JK351
JK700
C
AUDIO P.C.B
1
10
CP101
CN801
24
23
2
1
CN402
1.........11
2..........12
CN401
14.........2
13.........1
CN601
4.....1
PbF
SENSOR
PbF
1 . . . 4
H601/W601
Z7001
E
PANEL_L P.C.B
SOLDER SIDE
JK7801
JK7001
PP7501
HEAD
-PHONES
R
L/MONO
AUDIO IN
VIDEO
IN
S-VIDEO
IN
L2
3 . . 1
H7801A
F
PANEL_R P.C.B
SOLDER SIDE
CN1104
14.........2
13..........1
PbF
H
TV TUNER INTERFACE P.C.B
TU7401 TV TUNER (ENGD6201DR)
1 . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 27
PS9705
1
14
PbF
SOLDER SIDE
3 . . . 1
H7801B
VR7801
PbF
VOLUME
I
VOLUME P.C.B
SOLDER SIDE


IC6002
C0EBE0000130
(RESET)
DOUT
12
IC3401
AN13310B-VB
VAD CON
ADC
ADC
ADYOUT4 73 Y4
ADYOUT3 72 Y3
ADYOUT2 71 Y2
ADYOUT1 69 Y1
ADYOUT0 68 Y0
ADCOUT4 67 C4
ADCOUT3 66 C3
ADCOUT2 64 C2
ADCOUT1 63 C1
ADCOUT0 62 C0
11 Y1
19 C1
CLAMP PULSE 78
27MHz IN 57
ANALOG VIDEO BLOCK SECTION
P7402 P9001 2
V YIN DM
P7402 P9001 1
CPN CIN DM
IC4408
C0JBAD000107
XD MUTE OUT
INB 1
INA 2
4 OUTY
P7402 P9001 70
XDMUTE
IC4401
C0FBBK000044
AUDIO 5.1CH DAC
20 LOUT3
19 ROUT3
20 LOUT3
19 ROUT3
22 LOUT2
21 ROUT2
25 LOUT1
24 ROUT1
DZF1 40
SDT1 3
CN401 FP4401 5 DAC CNT
CN401 FP4401 3 DAC SBW
CN401 FP4401 9 DAC SL
CN401 FP4401 7 DAC SR
CN401 FP4401 13 DAC FL
CN401 FP4401 11 DAC FR
P7402 P9001 62 MIXLOUT DM
P7402 P9001 58 MIXROUT DM
D MIX
IC3406
C1DB00001110
CLOCK GENERATOR
BUF OUT2 13 27MHz
BUF IN 16 27MHz
BUF OUT1 14 27MHz
CLK54M 24 54MHz
X3401 (27MHz)
ENC DATA
P7402 P9001 72
IECOUT
ANALOG AUDIO BLOCK SECTION
IC4406
C0FBAK000008
AUDIO ADC
1 VINL
2 VINR
DOUT 12
BCK 11
P7402 P9001 50 AADC L
P7402 P9001 48 AADC R
IC4407
C0JBAA000257
CLOCK OUT
2 INB
OUTY 4
IC6701
C1ZBZ0002433
GLUE
146 I0DATA5
95 ENAD
85 AD IN2
80 BCKI2
● Audio EE Delay
● MP3 Playback
DECIEC
IEC IN 88
ADOUT1 96
EE DATA
SCLK 47
MINTP 48
SBPTM 49
UARTP2G 54
NFWE 61
TC 22 - 1/2
TC 14 - 1/2
P7402 P9001 45 ITM2A
P7402 P9001 47 ITA2M
P7402 P9001 33 SCLK
P7402 P9001 29 XINTP
P7402 P9001 39 SBPTM
P7402 P9001 65 UARTP2G
P7402 P9001 31 XFWE
Q6705 BUFFER
Q6704 BUFFER
Q6703 BUFFER
Q6702 BUFFER
Q6701 BUFFER
IC6703
P: REP3774P
PC: RFKBHT1500PC
DATA STORAGE
(NAND FROM) (128M)
● Mini boot
● Firm ware
● Model information
● U/H/F Error
● Laser hour
TC 8

| P.C.B. Name | Circuit Name | Ref.No. |
|---|---|---|
| Digital P.C.B. | Glue Net | Ref.No.6700,9000 SERIES |
| | Main P.C.B.connect circuit | P9001 |
| | AV ENC | Ref.No.3400 SERIES |
| | RTSC | Ref.No.3500 SERIES |
| | AVDEC / MAIN CPU | Ref.No.6000,50000 SERIES |
| | Audio I/O | Ref.No.4400 SERIES |
| Main P.C.B. | Sub Power Supply | Ref.No.1500 SERIES |
| | Main Net | Ref.No.7400 SERIES |
| | Digital P.C.B.connect circuit | P7402 |
| | Video I/O | Ref.No.3000,3900,4900 SERIES |
| | Audio Main | Ref.No.4000 SERIES |
| | Timer | Ref.No.7500,7600 SERIES |


IC3402
C3ABMG000193
16BIT/16M SDRAM
16bit/16M SDRAM
IC3408
C3ABPJ000017
32BIT/64M SDRAM
32bit/64M SDRAM
IC3404
MN85573
AV ENC
TC ①
TC ②
SDRAM I/F
SDRAM I/F
316 YIN4
315 YIN3
314 YIN2
313 YIN1
312 YIN0
322 CIN4
321 CIN3
320 CIN2
319 CIN1
318 CIN0
310 GCP
3D Y/C
C DEC
TBC
FRAME SYNCHRO.
27MHz
VIDEO ENC
384fs
STREAM PS I/F
AUDIO ENC
HOST I/F
CLK27I
293
CLK27O
306
178 AD IN
TC ⑲ -1/2
TC ④
TC ⑤
TC ⑥ ST0 ~ ST7
IC6001
MN2DS0011-H
AV DEC/MAIN CPU
171 PCLK
290 VCLK
R656ENC
R656DEC
256 ADOUT3
262 IECOUT
263 ADIN
CSS CPRM CPPM
AV-DEC MCP10
AUDIO WMDET
POST PROS
OSD
NTSC/PAL ENCODER
DAC4
DAC5
DAC1
DAC2
DAC3
195
196
187
190
191
Q6002
BUFFER
BUFFER
Q6001
205 SBO2
210 SBI2
HOST I/F
SDRAM I/F
32bit MAIN CPU
TC ⑮ -1/2
DATA / ADDRESS BUS LINE
TC ⑯ / TC ⑲ -1/2 / TC ㉑ -1/2 / TC ㉒ -1/2
TC ⑪
( SA0-SA25 ADDRESS BUS LINE SD16-SD31 DATA BUS LINE )
DATA/ADDRESS BUS LINE
TC ⑨
TC ⑩
TC ⑰
TC ⑯
16bit/64M SDRAM
16bit/64M SDRAM
BUFFER
WORKING MEMORY (16bit/256M-SDRAM)
WORKING MEMORY (16bit/256M-SDRAM)
IC50001
C3ABPG000133
16BIT/64M SDRAM
IC50002
C3ABPG000133
16BIT/64M SDRAM
IC6004
C0JBAZ001466
IC6005
C3ABRG000036
16BIT/256M SDRAM
IC6006
C3ABRG000036
16BIT/256M SDRAM

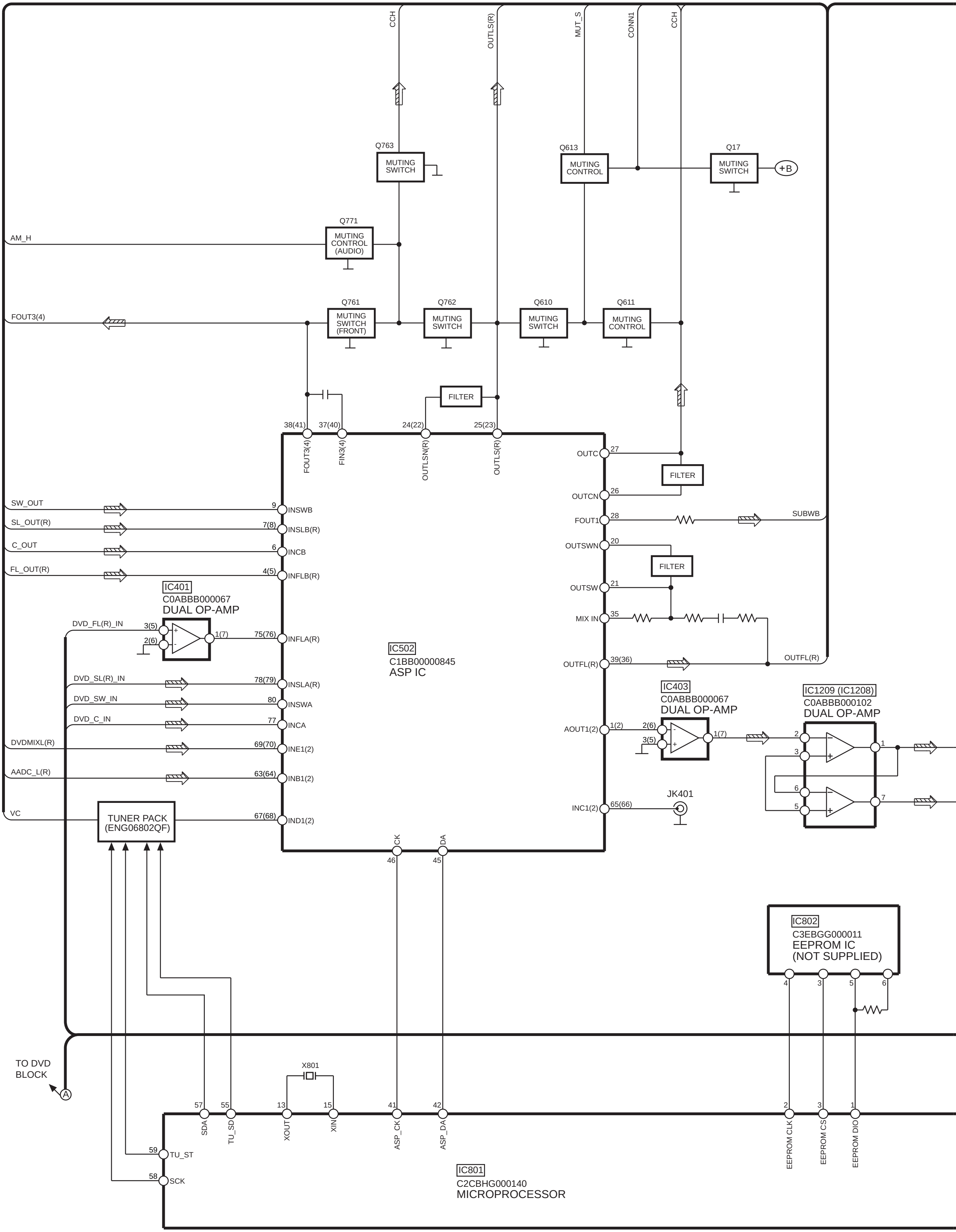

IC3502
C3ABRG000036
32BIT/256M SDRAM
16bit/256M SDRAM
X3501 (33MHz)
IC3501
MN88302
RTSC
TC ⑫
SDRAM I/F
INIDERST ㉑⑤
QR3502, QR3503
RESET
DVD RAM DRIVE
TC ⑦
REAL TIME STREAM CONTROL
LOCAL ENC DENC
IDE I/F
TC ③
MICON I/F
TC ㉑ -1/2
TC ⑳
TC ⑬
DATA(MSD16 ～ MSD31)/ADDRESS BUS LINE(MSA1 ～ MSA7)
HDD
VIDEO EE SIGNAL
AUDIO EE SIGNAL
:REC SIGNAL
:PB SIGNAL
Q50004
BUFFER
Y OUT DM
P9001 P7402 22
Q50005
BUFFER
C OUT DM
P9001 P7402 18
Q50001
BUFFER
GPY OUT DM
P9001 P7402 26
Q50002
BUFFER
BPB OUT DM
P9001 P7402 30
Q50003
BUFFER
RPR OUT DM
P9001 P7402 34
TO ANALOG VIDEO BLOCK SECTION
SA0-SA25 ADDRESS BUS LINE
SD16-SD31 DATA BUS LINE
TC ⑬ / TC ⑭ -1/2 / TC ⑮ / -1/2 TC ⑰ / TC ⑱ -1/2 / TC ⑳
TC ⑱ -1/2
IC6003
C3CBLD000091
LOADER

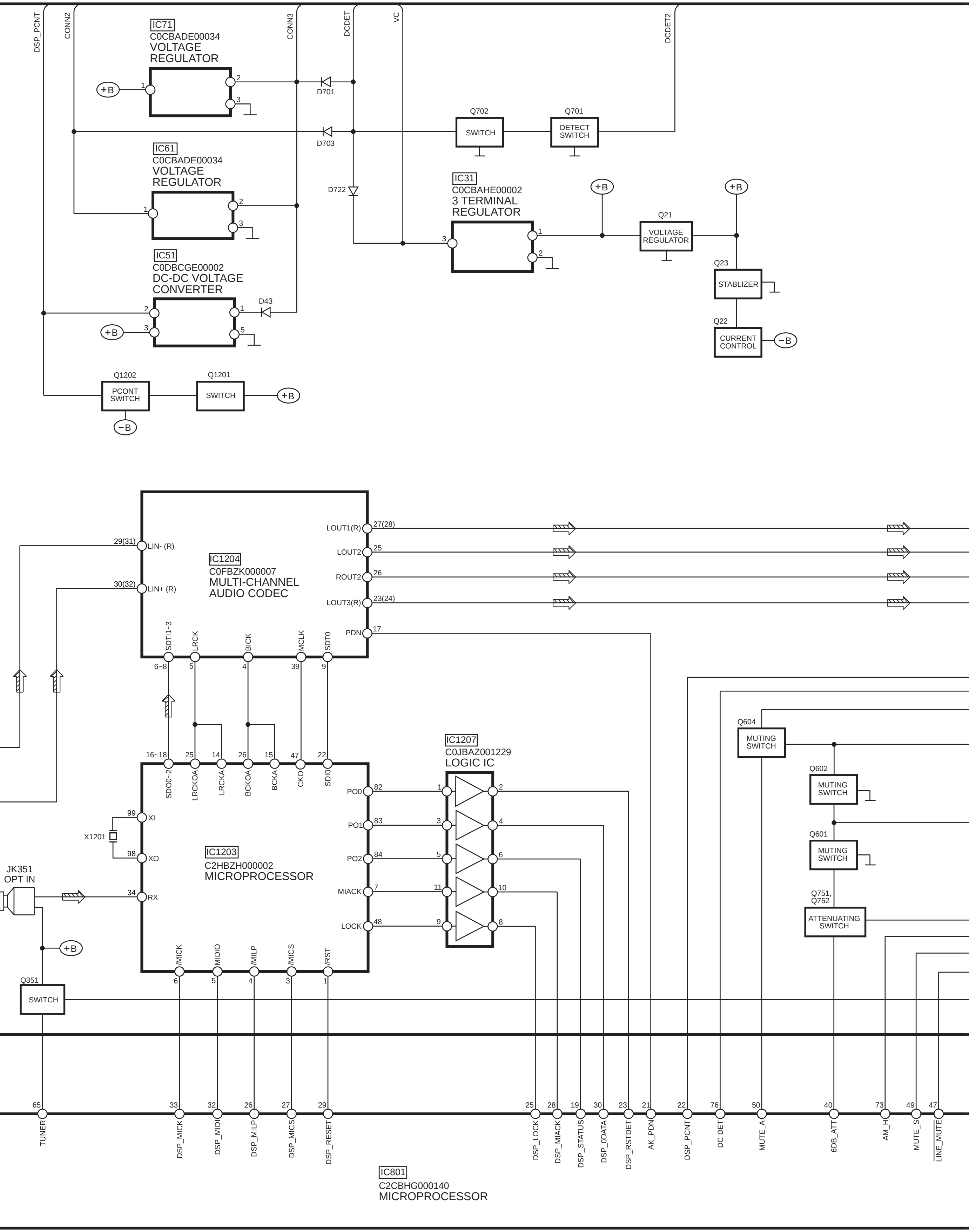
## <Booting process for Digital PCB>

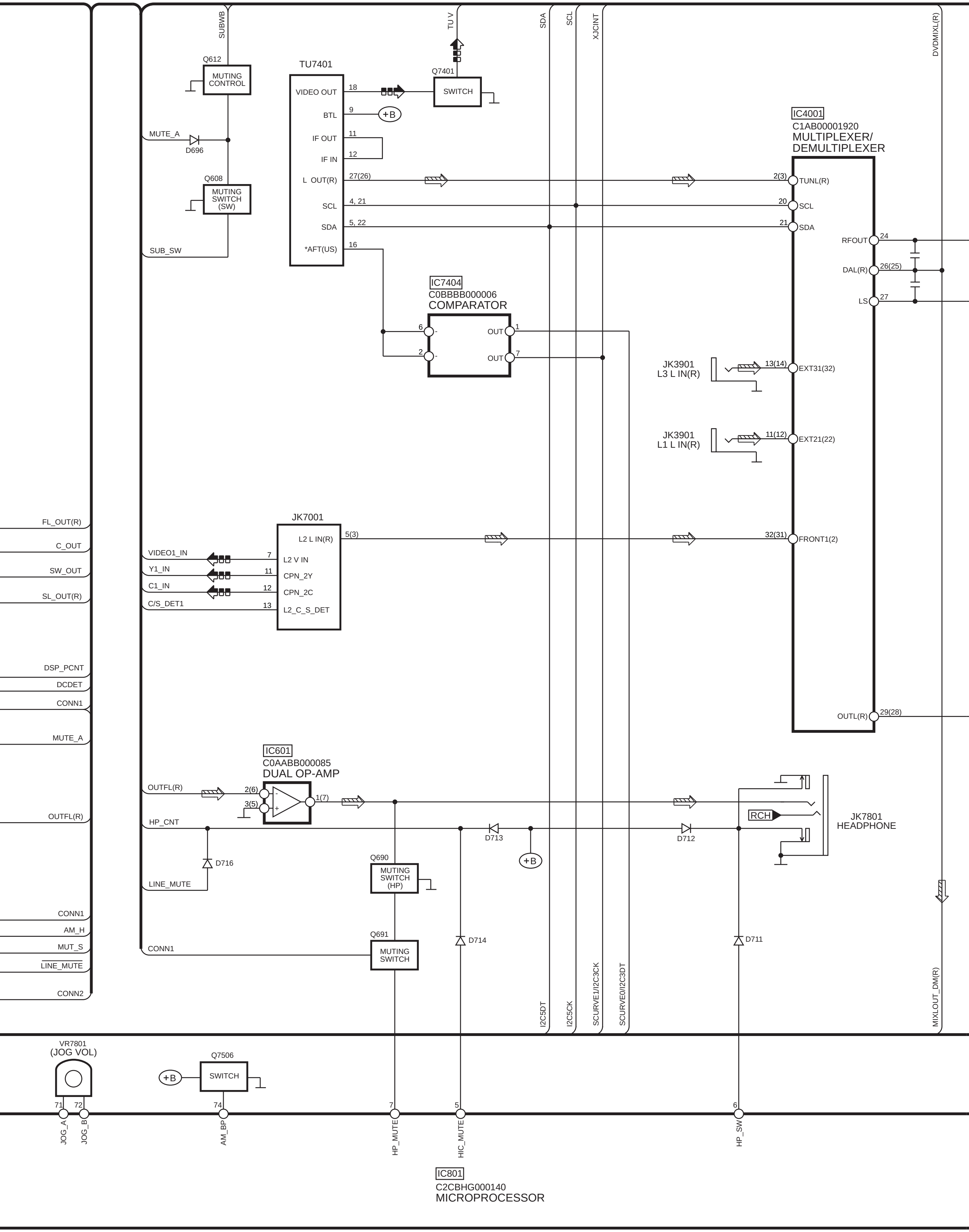
1."LOADER" is booted.
2.Search miniboot program at "DATA STRAGE" by loader and download it to "WORKING MEMORY".
3.Search main program at "DATA STRAGE" by miniboot and download it to "WORKING MEMORY".
4."MAIN CPU" is controled by Downloaded main program at "WORKING MEMORY".

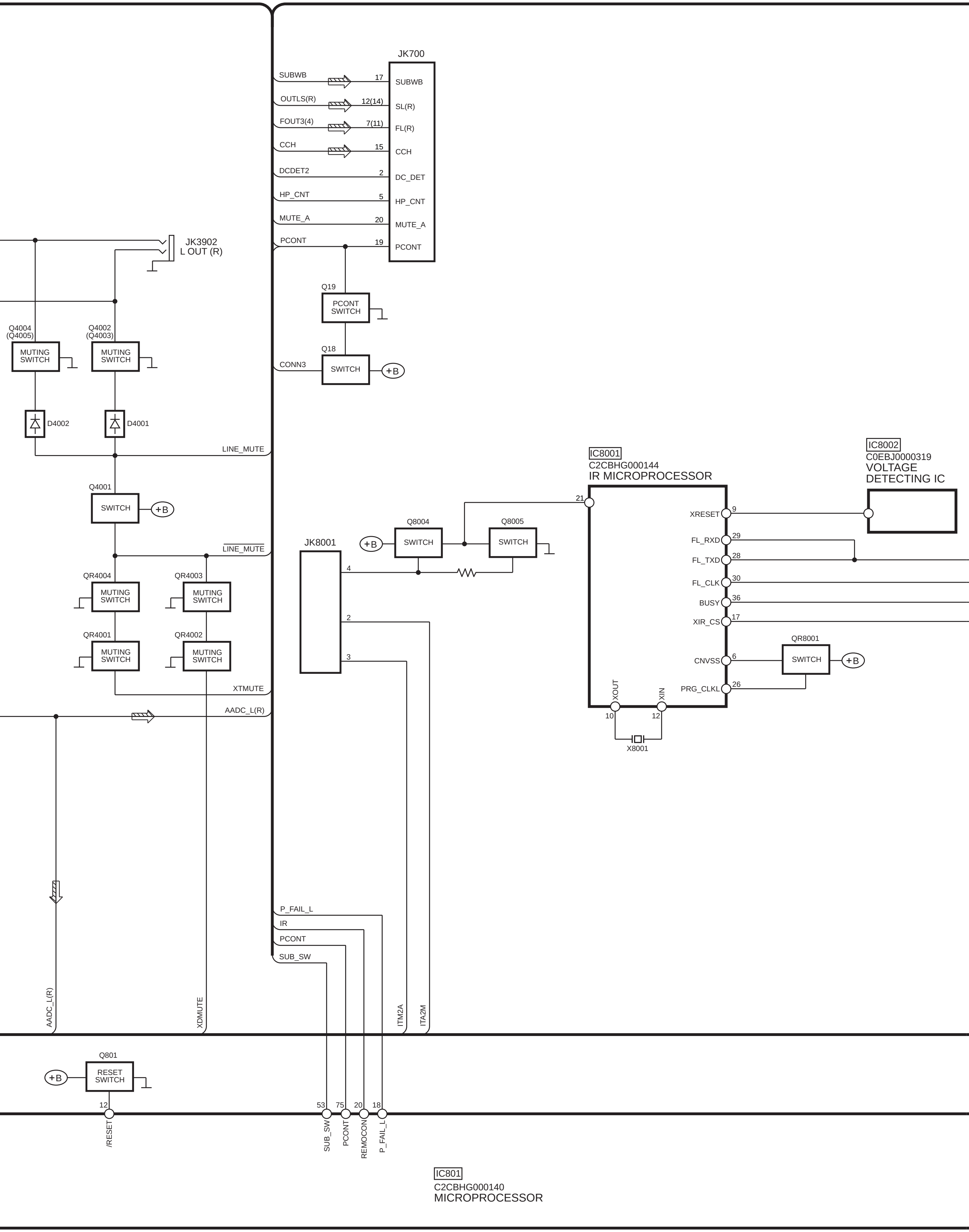
#Loader:Load booting and miniboot program.
Miniboot:Load main program and updata firmwave.

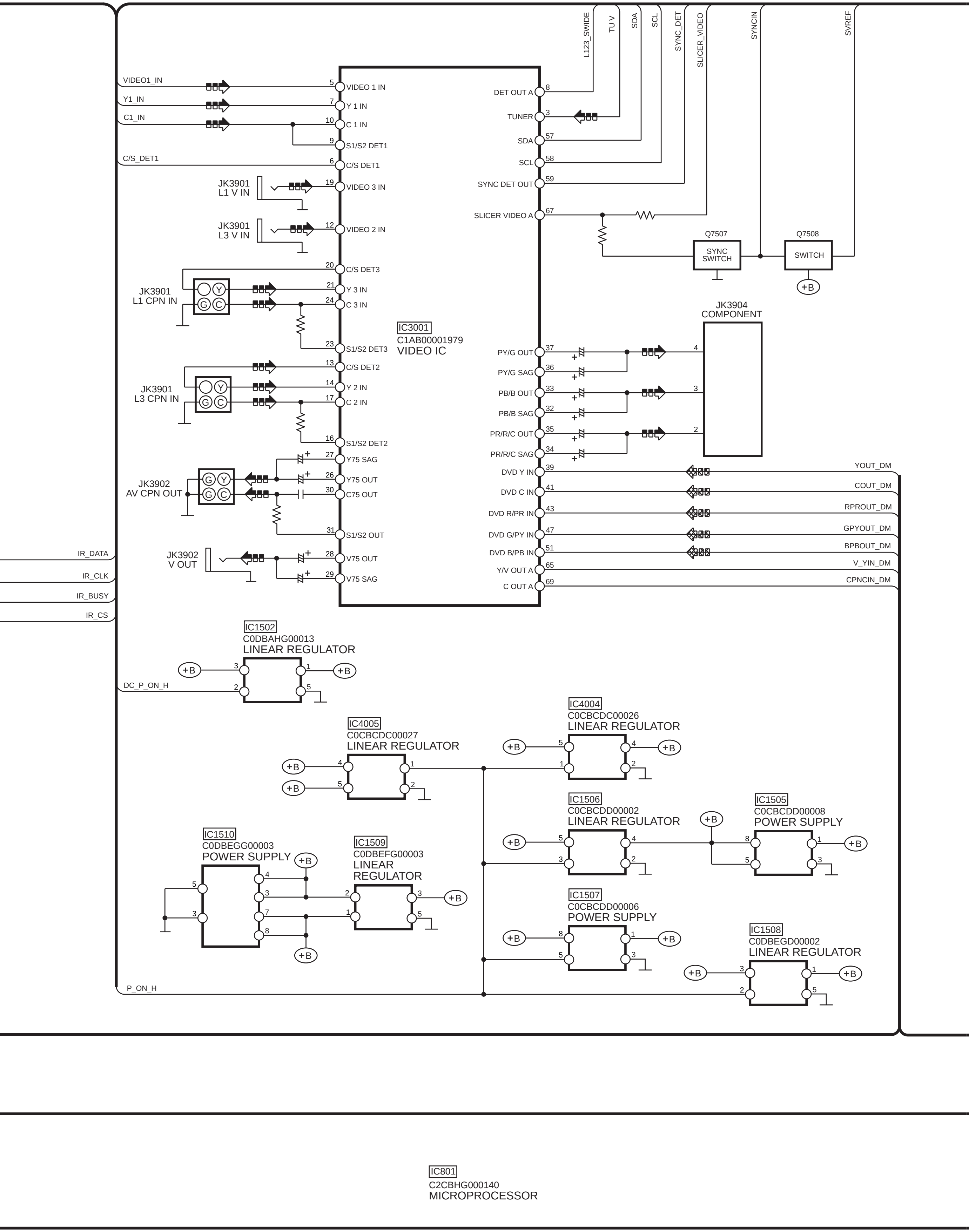
SA-HT1500P/PC
Digital Block Diagram

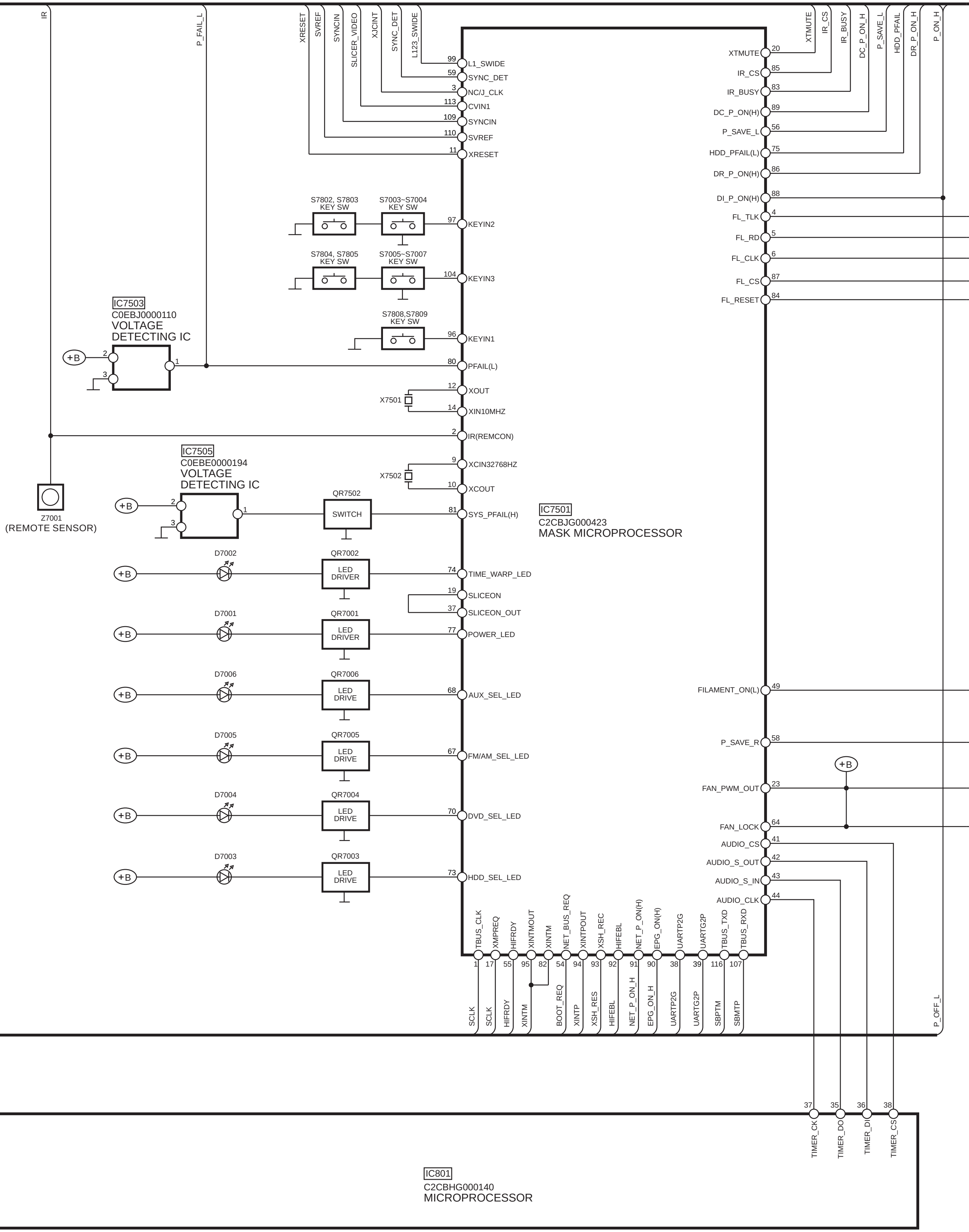

CCH
OUTLS(R)
MUT_S
CONN1
CCH
Q763
MUTING SWITCH
Q613
MUTING CONTROL
Q17
MUTING SWITCH
+B
Q771
MUTING CONTROL (AUDIO)
AM_H
Q761
MUTING SWITCH (FRONT)
Q762
MUTING SWITCH
Q610
MUTING SWITCH
Q611
MUTING CONTROL
FOUT3(4)
FILTER
38(41)
37(40)
24(22)
25(23)
FOUT3(4)
FIN3(4)
OUTLSN(R)
OUTLS(R)
OUTC 27
FILTER
OUTCN 26
FOUT1 28
SUBWB
OUTSWN 20
FILTER
OUTSW 21
MIX IN 35
OUTFL(R) 39(36)
OUTFL(R)
SW_OUT
9 INSWB
SL_OUT(R)
7(8) INSLB(R)
C_OUT
6 INCB
FL_OUT(R)
4(5) INFLB(R)
IC401
C0ABBB000067
DUAL OP-AMP
DVD_FL(R)_IN
3(5)
2(6)
1(7)
75(76) INFLA(R)
IC502
C1BB00000845
ASP IC
DVD_SL(R)_IN
78(79) INSLA(R)
DVD_SW_IN
80 INSWA
DVD_C_IN
77 INCA
DVDMIXL(R)
69(70) INE1(2)
AADC_L(R)
63(64) INB1(2)
VC
TUNER PACK (ENG06802QF)
67(68) IND1(2)
CK
DA
46
45
IC403
C0ABBB000067
DUAL OP-AMP
AOUT1(2) 1(2)
2(6)
3(5)
1(7)
IC1209 (IC1208)
C0ABBB000102
DUAL OP-AMP
2
3
1
6
5
7
JK401
INC1(2) 65(66)
IC802
C3EBGG000011
EEPROM IC
(NOT SUPPLIED)
4
3
5
6
TO DVD BLOCK
A
X801
57
55
13
15
41
42
2
3
1
SDA
TU_SD
XOUT
XIN
ASP_CK
ASP_DA
EEPROM CLK
EEPROM CS
EEPROM DIO
59 TU_ST
58 SCK
IC801
C2CBHG000140
MICROPROCESSOR


DSP_PCNT
CONN2
CONN3
DCDET
VC
DCDET2
IC71
C0CBADE00034
VOLTAGE
REGULATOR
+B
D701
D703
Q702
SWITCH
Q701
DETECT
SWITCH
IC61
C0CBADE00034
VOLTAGE
REGULATOR
D722
IC31
C0CBAHE00002
3 TERMINAL
REGULATOR
Q21
VOLTAGE
REGULATOR
Q23
STABLIZER
Q22
CURRENT
CONTROL
−B
IC51
C0DBCGE00002
DC-DC VOLTAGE
CONVERTER
D43
Q1202
PCONT
SWITCH
Q1201
SWITCH
IC1204
C0FBZK000007
MULTI-CHANNEL
AUDIO CODEC
LIN- (R)
LIN+ (R)
29(31)
30(32)
LOUT1(R)
27(28)
LOUT2
25
ROUT2
26
LOUT3(R)
23(24)
PDN
17
SDTI1~3
LRCK
BICK
MCLK
SDT0
6~8
5
4
39
9
IC1203
C2HBZH000002
MICROPROCESSOR
16~18
25
14
26
15
47
22
SDO0~2
LRCKOA
LRCKA
BCKOA
BCKA
CKO
SDI0
99
XI
X1201
98
XO
JK351
OPT IN
34
RX
PO0
82
PO1
83
PO2
84
MIACK
7
LOCK
48
/MICK
MIDIO
/MILP
/MICS
/RST
6
5
4
3
1
IC1207
C0JBAZ001229
LOGIC IC
1
2
3
4
5
6
11
10
9
8
Q604
MUTING
SWITCH
Q602
MUTING
SWITCH
Q601
MUTING
SWITCH
Q751,
Q752
ATTENUATING
SWITCH
Q351
SWITCH
65
TUNER
33
DSP_MICK
32
DSP_MIDI
26
DSP_MILP
27
DSP_MICS
29
DSP_RESET
25
DSP_LOCK
28
DSP_MIACK
19
DSP_STATUS
30
DSP_0DATA
23
DSP_RSTDET
21
AK_PDN
22
DSP_PCNT
76
DC DET
50
MUTE_A
40
6DB_ATT
73
AM_H
49
MUTE_S
47
LINE_MUTE
IC801
C2CBHG000140
MICROPROCESSOR


SUBWB
TU V
SDA
SCL
XJCINT
DVDMIXL(R)
Q612
MUTING CONTROL
TU7401
VIDEO OUT
BTL
IF OUT
IF IN
L OUT(R)
SCL
SDA
*AFT(US)
18
9
11
12
27(26)
4, 21
5, 22
16
+B
Q7401
SWITCH
MUTE_A
D696
Q608
MUTING SWITCH (SW)
SUB_SW
IC4001
C1AB00001920
MULTIPLEXER/ DEMULTIPLEXER
2(3)
TUNL(R)
20
SCL
21
SDA
RFOUT
24
DAL(R)
26(25)
LS
27
IC7404
C0BBBB000006
COMPARATOR
6
-
2
-
OUT
1
OUT
7
JK3901
L3 L IN(R)
13(14)
EXT31(32)
JK3901
L1 L IN(R)
11(12)
EXT21(22)
FL_OUT(R)
C_OUT
SW_OUT
SL_OUT(R)
JK7001
L2 L IN(R)
5(3)
32(31)
FRONT1(2)
VIDEO1_IN
Y1_IN
C1_IN
C/S_DET1
7
11
12
13
L2 V IN
CPN_2Y
CPN_2C
L2_C_S_DET
DSP_PCNT
DCDET
CONN1
MUTE_A
OUTL(R)
29(28)
IC601
C0AABB000085
DUAL OP-AMP
OUTFL(R)
2(6)
3(5)
1(7)
OUTFL(R)
HP_CNT
D716
LINE_MUTE
D713
+B
D712
RCH
JK7801
HEADPHONE
Q690
MUTING SWITCH (HP)
Q691
MUTING SWITCH
D714
D711
CONN1
AM_H
MUT_S
LINE_MUTE
CONN1
CONN2
I2C5DT
I2C5CK
SCURVE1/I2C3CK
SCURVE0/I2C3DT
MIXLOUT_DM(R)
VR7801
(JOG VOL)
71
72
JOG_A
JOG_B
Q7506
SWITCH
+B
74
AM_BP
7
HP_MUTE
5
HIC_MUTE
6
HP_SW
IC801
C2CBHG000140
MICROPROCESSOR


JK700
SUBWB
17
SUBWB
OUTLS(R)
12(14)
SL(R)
FOUT3(4)
7(11)
FL(R)
CCH
15
CCH
DCDET2
2
DC_DET
HP_CNT
5
HP_CNT
MUTE_A
20
MUTE_A
PCONT
19
PCONT
JK3902
L OUT (R)
Q19
PCONT SWITCH
Q18
CONN3
SWITCH
+B
Q4004
(Q4005)
MUTING SWITCH
Q4002
(Q4003)
MUTING SWITCH
D4002
D4001
LINE_MUTE
Q4001
SWITCH
+B
LINE_MUTE
QR4004
MUTING SWITCH
QR4003
MUTING SWITCH
QR4001
MUTING SWITCH
QR4002
MUTING SWITCH
XTMUTE
AADC_L(R)
JK8001
4
2
3
+B
Q8004
SWITCH
Q8005
SWITCH
IC8001
C2CBHG000144
IR MICROPROCESSOR
21
XRESET
9
FL_RXD
29
FL_TXD
28
FL_CLK
30
BUSY
36
XIR_CS
17
CNVSS
6
PRG_CLKL
26
XOUT
XIN
10
12
X8001
QR8001
SWITCH
+B
IC8002
C0EBJ0000319
VOLTAGE DETECTING IC
P_FAIL_L
IR
PCONT
SUB_SW
AADC_L(R)
XDMUTE
ITM2A
ITA2M
Q801
RESET SWITCH
+B
12
/RESET
53
75
20
18
SUB_SW
PCONT
REMOCON
P_FAIL_L
IC801
C2CBHG000140
MICROPROCESSOR


L123_SWIDE
TU V
SDA
SCL
SYNC_DET
SLICER_VIDEO
SYNCIN
SVREF
VIDEO1_IN
Y1_IN
C1_IN
C/S_DET1
JK3901
L1 V IN
JK3901
L3 V IN
JK3901
L1 CPN IN
JK3901
L3 CPN IN
JK3902
AV CPN OUT
JK3902
V OUT
IR_DATA
IR_CLK
IR_BUSY
IR_CS
5 VIDEO 1 IN
7 Y 1 IN
10 C 1 IN
9 S1/S2 DET1
6 C/S DET1
19 VIDEO 3 IN
12 VIDEO 2 IN
20 C/S DET3
21 Y 3 IN
24 C 3 IN
23 S1/S2 DET3
13 C/S DET2
14 Y 2 IN
17 C 2 IN
16 S1/S2 DET2
27 Y75 SAG
26 Y75 OUT
30 C75 OUT
31 S1/S2 OUT
28 V75 OUT
29 V75 SAG
IC3001
C1AB00001979
VIDEO IC
DET OUT A 8
TUNER 3
SDA 57
SCL 58
SYNC DET OUT 59
SLICER VIDEO A 67
PY/G OUT 37
PY/G SAG 36
PB/B OUT 33
PB/B SAG 32
PR/R/C OUT 35
PR/R/C SAG 34
DVD Y IN 39
DVD C IN 41
DVD R/PR IN 43
DVD G/PY IN 47
DVD B/PB IN 51
Y/V OUT A 65
C OUT A 69
Q7507
SYNC SWITCH
Q7508
SWITCH
+B
JK3904
COMPONENT
4
3
2
YOUT_DM
COUT_DM
RPROUT_DM
GPYOUT_DM
BPBOUT_DM
V_YIN_DM
CPNCIN_DM
IC1502
C0DBAHG00013
LINEAR REGULATOR
DC_P_ON_H
IC4005
C0CBCDC00027
LINEAR REGULATOR
IC4004
C0CBCDC00026
LINEAR REGULATOR
IC1506
C0CBCDD00002
LINEAR REGULATOR
IC1505
C0CBCDD00008
POWER SUPPLY
IC1510
C0DBEGG00003
POWER SUPPLY
IC1509
C0DBEFG00003
LINEAR REGULATOR
IC1507
C0CBCDD00006
POWER SUPPLY
IC1508
C0DBEGD00002
LINEAR REGULATOR
P_ON_H
IC801
C2CBHG000140
MICROPROCESSOR


IR
P_FAIL_L
XRESET
SVREF
SYNCIN
SLICER_VIDEO
XJCINT
SYNC_DET
L123_SWIDE
99 L1_SWIDE
59 SYNC_DET
3 NC/J_CLK
113 CVIN1
109 SYNCIN
110 SVREF
11 XRESET
S7802, S7803 KEY SW
S7003~S7004 KEY SW
97 KEYIN2
S7804, S7805 KEY SW
S7005~S7007 KEY SW
104 KEYIN3
S7808,S7809 KEY SW
96 KEYIN1
IC7503
C0EBJ0000110
VOLTAGE DETECTING IC
+B
2
3
1
80 PFAIL(L)
X7501
12 XOUT
14 XIN10MHZ
2 IR(REMCON)
IC7505
C0EBE0000194
VOLTAGE DETECTING IC
X7502
9 XCIN32768HZ
10 XCOUT
Z7001
(REMOTE SENSOR)
QR7502
SWITCH
81 SYS_PFAIL(H)
IC7501
C2CBJG000423
MASK MICROPROCESSOR
D7002
QR7002
LED DRIVER
74 TIME_WARP_LED
19 SLICEON
37 SLICEON_OUT
D7001
QR7001
LED DRIVER
77 POWER_LED
D7006
QR7006
LED DRIVE
68 AUX_SEL_LED
D7005
QR7005
LED DRIVE
67 FM/AM_SEL_LED
D7004
QR7004
LED DRIVE
70 DVD_SEL_LED
D7003
QR7003
LED DRIVE
73 HDD_SEL_LED
XTMUTE
IR_CS
IR_BUSY
DC_P_ON_H
P_SAVE_L
HDD_PFAIL
DR_P_ON_H
P_ON_H
XTMUTE 20
IR_CS 85
IR_BUSY 83
DC_P_ON(H) 89
P_SAVE_L 56
HDD_PFAIL(L) 75
DR_P_ON(H) 86
DI_P_ON(H) 88
FL_TLK 4
FL_RD 5
FL_CLK 6
FL_CS 87
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FILAMENT_ON(L) 49
P_SAVE_R 58
FAN_PWM_OUT 23
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AUDIO_CS 41
AUDIO_S_OUT 42
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AUDIO_CLK 44
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XMPREQ 17
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XINTMOUT 95
XINTM 82
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XSH_REC 93
HIFEBL 92
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EPG_ON(H) 90
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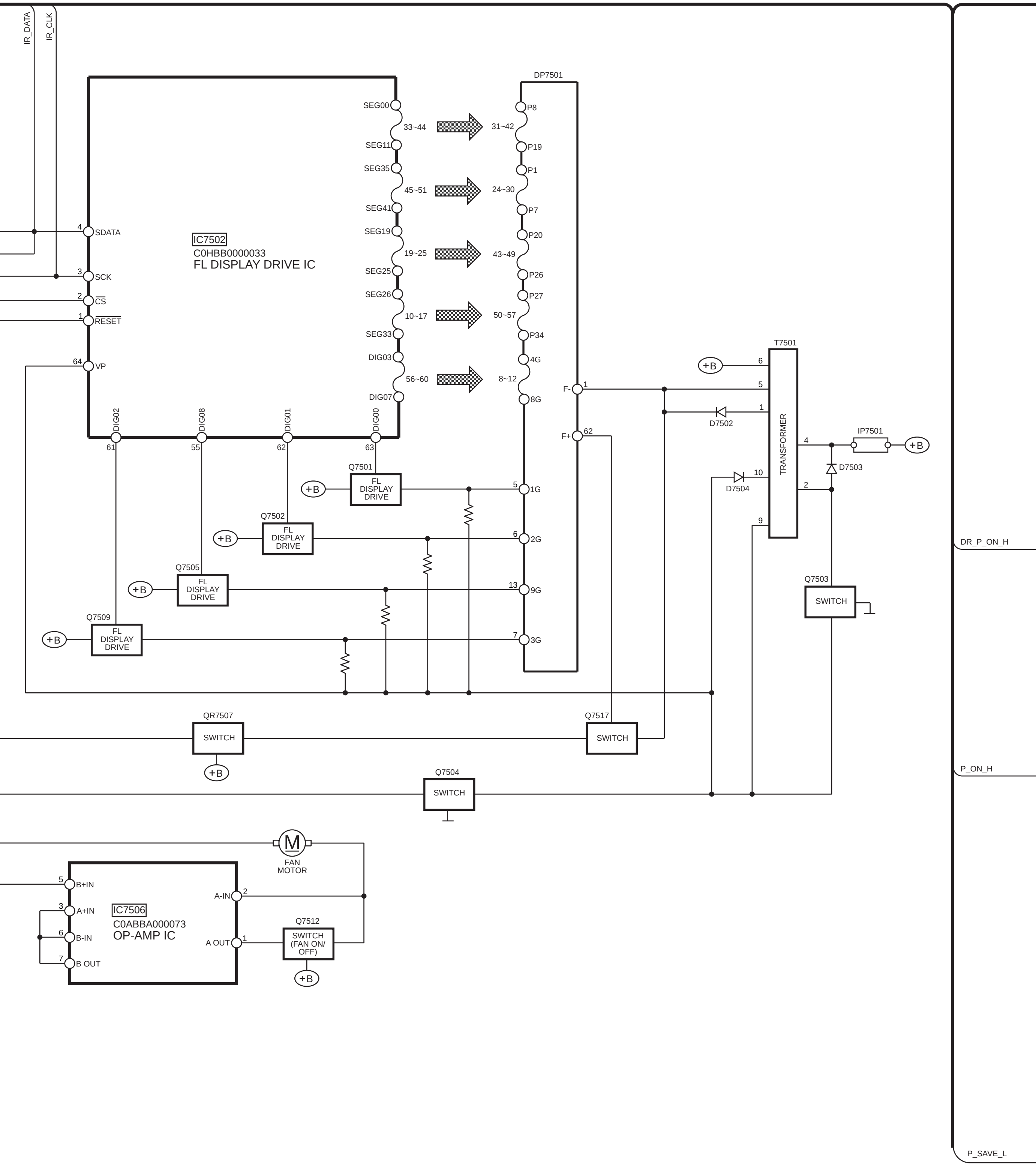
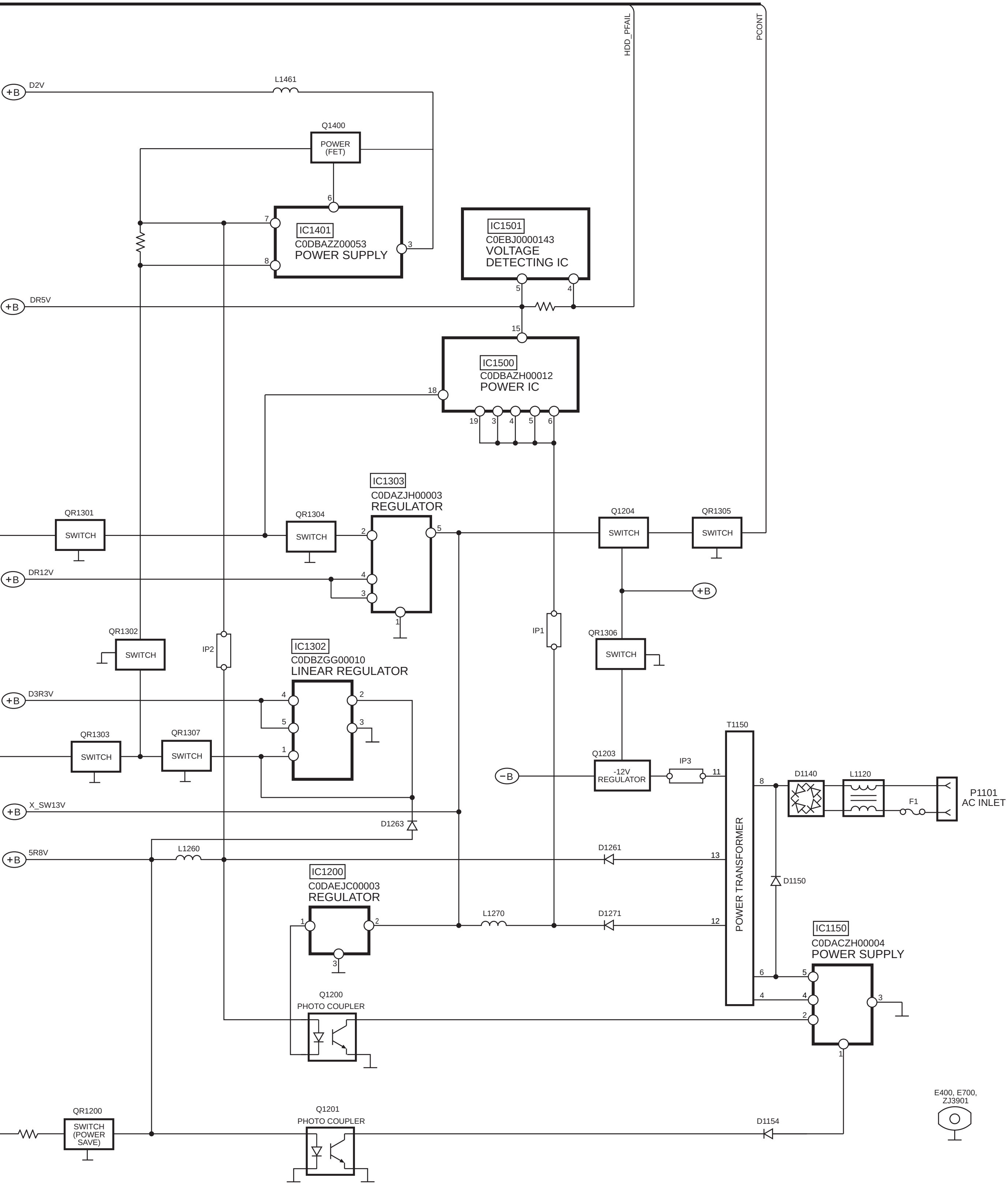
TBUS_RXD 107
SCLK
SCLK
HIFRDY
XINTM
BOOT_REQ
XINTP
XSH_RES
HIFEBL
NET_P_ON_H
EPG_ON_H
UARTP2G
UARTG2P
SBPTM
SBMTP
P_OFF_L
37 TIMER_CK
35 TIMER_DO
36 TIMER_DI
38 TIMER_CS
IC801
C2CBHG000140
MICROPROCESSOR


IR_DATA
IR_CLK
IC7502
C0HBB0000033
FL DISPLAY DRIVE IC
4 SDATA
3 SCK
2 CS
1 RESET
64 VP
SEG00
33~44
SEG11
SEG35
45~51
SEG41
SEG19
19~25
SEG25
SEG26
10~17
SEG33
DIG03
56~60
DIG07
DIG02
DIG08
DIG01
DIG00
61
55
62
63
DP7501
P8
31~42
P19
P1
24~30
P7
P20
43~49
P26
P27
50~57
P34
4G
8~12
8G
F-
1
F+
62
5 1G
6 2G
13 9G
7 3G
Q7501
FL DISPLAY DRIVE
Q7502
FL DISPLAY DRIVE
Q7505
FL DISPLAY DRIVE
Q7509
FL DISPLAY DRIVE
+B
T7501
TRANSFORMER
6
5
1
10
9
4
2
D7502
D7504
D7503
IP7501
Q7503
SWITCH
QR7507
SWITCH
Q7517
SWITCH
Q7504
SWITCH
DR_P_ON_H
P_ON_H
P_SAVE_L
M
FAN MOTOR
IC7506
C0ABBA000073
OP-AMP IC
5 B+IN
3 A+IN
6 B-IN
7 B OUT
A-IN 2
A OUT 1
Q7512
SWITCH (FAN ON/ OFF)


HDD_PFAIL
PCONT
+B
D2V
L1461
Q1400
POWER (FET)
IC1401
C0DBAZZ00053
POWER SUPPLY
IC1501
C0EBJ0000143
VOLTAGE DETECTING IC
+B
DR5V
IC1500
C0DBAZH00012
POWER IC
IC1303
C0DAZJH00003
REGULATOR
QR1301
SWITCH
QR1304
SWITCH
Q1204
SWITCH
QR1305
SWITCH
+B
DR12V
+B
QR1302
SWITCH
IP2
IC1302
C0DBZGG00010
LINEAR REGULATOR
IP1
QR1306
SWITCH
+B
D3R3V
QR1303
SWITCH
QR1307
SWITCH
T1150
Q1203
-12V REGULATOR
IP3
−B
D1140
L1120
F1
P1101
AC INLET
+B
X_SW13V
D1263
+B
5R8V
L1260
D1261
POWER TRANSFORMER
D1150
IC1200
C0DAEJC00003
REGULATOR
L1270
D1271
IC1150
C0DACZH00004
POWER SUPPLY
Q1200
PHOTO COUPLER
E400, E700, ZJ3901
QR1200
SWITCH (POWER SAVE)
Q1201
PHOTO COUPLER
D1154

SIGNAL LINES

▨ : MAIN SIGNAL LINE
▨ : DVD VIDEO SIGNAL LINE
▨ : DVD AUDIO SIGNAL LINE
▨ : VIDEO SIGNAL LINE
▨ : CD-DA (AUDIO /VIDEO) SIGNAL LINE
➡ : FM /AM SIGNAL LINE
▨ : AUXILIARY SIGNAL LINE

( ) Indicates the Pin No. of Right Channel.

NOTE : Signal Lines are applicable to the Left Channel only.

# HDD and discs you can use for recording and play

| Type | Logo | Indicated in these instructions | Instructions |
|---|---|---|---|
| **Hard disk drive (HDD)**<br>●80 GB | – | HDD | Temporary storage<br>●You can record up to 142 hours [in EP (8H) mode] (Recording modes and approximate recording times).<br>●You can perform chasing playback or Time Slip.<br>●You can record digital broadcasts that allow "One time only recording". You can transfer (dub) a recorded title to a CPRM compatible DVD-RAM; however, the title is erased from the HDD. |
| **DVD-RAM**<br>●4.7 GB/9.4 GB, 12 cm (5″)<br>●2.8 GB, 8 cm (3″) | DVD RAM RAM4.7 | RAM | Re-writable discs for backup use<br>●You can record up to 16 hours [in EP (8H) mode on double-sided disc. You cannot record or play continuously on two sides.] (Recording modes and approximate recording times).<br>●You can perform chasing playback or Time Slip.<br>●Scratch and dust resistant cartridge discs and large capacity double sided discs (9.4GB) are commercially available.<br>●You can record digital broadcasts that allow "One time only recording" when using CPRM (Content Protection for Recordable Media) compatible discs. You cannot transfer (dub) a recorded title.<br>●This unit is compatible with 1×–3× recording speed discs.<br>●You can transfer (dub) up to 24 × recording speed by using a high speed recording compatible disc. |
| **DVD-R**<br>●4.7 GB, 12 cm (5″)<br>●1.4 GB, 8 cm (3″) | DVD R R4.7 | DVD-R | One time recording discs for backup use (recordable until the disc is full)<br>●You can record up to 8 hours [in EP (8H) mode].<br>●By finalizing the disc, you can play it in a DVD player as DVD-Video (Play only).<br>●You cannot record digital broadcasts that allow "One time only recording".<br>●This unit is compatible with 1×–4× recording speed discs.<br>●You can transfer (dub) up to 32 × recording speed by using a high speed recording compatible disc. |

- We recommend using Panasonic discs. DVD-R from other manufacturers may not be recorded or played due to the condition of the recording.

## ■ Which should I use, DVD-RAM or DVD-R?

The following chart indicates the differences. Select based upon what you require.

| (○:Possible, ×:Impossible) | DVD-RAM | DVD-R |
|---|---|---|
| Re-writable | ○ | × |
| Edit | ○ | ※1 |
| Play on other players | ○※2 | ○※3 |
| Recording both Main and SAP of MTS broadcast | ○ | ×※4 |
| Recording broadcasts that allow one copy | ○※5 | × |
| Recording 16:9 aspect picture | ○ | ※6 |

※1 You can erase, enter name and change thumbnail. Available space does not increase after erasing.
※2 Only on DVD-RAM compatible players.
※3 After finalizing the disc.
※4 Only one is recorded (Select MTS).
※5 CPRM compatible discs only.
※6 The picture is recorded in 4:3 aspect.

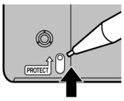
**Note**

When "DVD-R High-Speed Recording" is set to "On" the restrictions on secondary audio recording, etc. are also applied to DVD-RAM. Turn this setting "Off" if high speed transfer (dubbing) to DVD-R is not necessary when recording a program.

## ■ Protection RAM (Cartridge discs)

With the write-protect tab in the protect position, you cannot record to, edit, or erase from the disc.

Play automatically starts when inserted in the unit.



# Play-only discs (12 cm/8 cm)

| Disc type | Logo | Indicated in these instructions | Instructions |
|---|---|---|---|
| DVD-Audio | DVD AUDIO | DVD-A | High fidelity music discs |
| DVD-Video | DVD VIDEO<br>DVD VIDEO | DVD-V | High quality movie and music discs |
| Video CD | COMPACT disc DIGITAL VIDEO | VCD | Recorded music and video (including CD-R/RW) |
| Audio CD | COMPACT disc DIGITAL AUDIO | CD | Recorded audio and music (including CD-R/RW) |
|  | – |  | CD-R and CD-RW with music recorded in MP3 |

- This unit plays CD-R/CD-RW (audio recording discs). Close the session or finalize the disc after recording.
  Play may be impossible on some CD-R or CD-RW discs due to the condition of the recording.
- The producer of the material can control how discs are played. So you may not always be able to control play as described in these operating instructions. Read the disc's instructions carefully.

# Discs that cannot be played

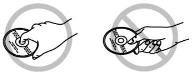
- 2.6 and 5.2 GB DVD-RAM, 12 cm (5″)
- 3.95 and 4.7 GB DVD-R for Authoring
- Unfinalized DVD-R recorded on other equipment
- PAL discs (you can still play the audio on DVD-Audio)
- DVD-Video with a region number other than "1" or "ALL"
- DVD-ROM, DVD-RW, +R, +RW, CD-ROM, CDV, CD-G, Photo CD, CVD, SVCD, SACD, MV-Disc, PD, Divx Video Disc, etc.

Continued on next page

## Disc handling

### ■ How to hold a disc

Do not touch the recorded surface.



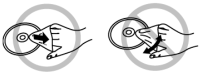
### ■ If there is dirt or condensation on the disc

**RAM** **DVD-R**

- Clean with an optional DVD-RAM/PD disc cleaner (LF-K200DCA1, where available).
- Do not use cleaners for CDs or cloths.

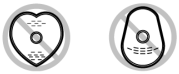
**DVD-A** **DVD-V** **VCD** **CD**

Wipe with a damp cloth and then wipe dry.



### ■ Handling precautions

- Do not attach labels or stickers to discs. (This may cause disc warping and un-balanced rotation, rendering it unusable.)
- Do not write on the label side with a ball-point pen or other writing instrument.
- Do not use record cleaning sprays, benzine, thinner, static electricity prevention liquids or any other solvent.
- Do not use scratch-proof protectors or covers.
- Do not use the following discs:
  - –Discs with exposed adhesive from removed stickers or labels (rented discs, etc).
  - –Discs that are badly warped or cracked.
  - –Irregularly shaped discs, such as heart shapes.



- Do not place in the following areas:
  - –In direct sunlight.
  - –In very dusty or humid areas.
  - –Near a heater.

## HDD (Hard disk drive) handling care

The HDD is a high precision recording instrument and because of its long recording capability and high speed operation it is a very special device that is easily susceptible to damage.
As a basic rule, save important video content to a DVD disc as backup.

### ■ The HDD is a device that is not built to withstand vibration/shock or dust

Depending on the setup environment and handling of the HDD some content may become damaged and play and recording may no longer be possible. Especially during operation, do not subject the unit to any vibration, shock, or remove the AC power plug from the household AC outlet. In the event of a power failure the content, during recording or play, may be damaged.

### ■ The HDD is a temporary storage device

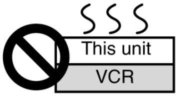
The HDD is not an everlasting storage device for recorded content. Use the HDD as a temporary storage place for viewing once, editing, or for saving to a DVD disc.

### ■ Immediately save (backup) all content as soon as you feel there may be problem with the HDD

If there is an irregularity within the HDD, strange sounds or problems with picture (block noise, etc.) may result. Using the HDD in this condition may worsen the problem and in the worst case the HDD may no longer become usable. As soon as you notice this type of problem, save all content to the DVD disc.
Recorded content (data) on an HDD that has become unusable is unrecoverable.

### ■ Setup precautions

- **Do not place in an enclosed area so the rear cooling fan and the cooling vents on the side are covered up.**
- **Place the unit on a surface that is flat and not subject to vibration or impact.**
- **Do not place on anything that generates heat like a video cassette recorder, etc.**



- Do not place in an area often subject to temperature changes.
- Place in an area where condensation does not occur.
  Condensation is a phenomenon where moisture forms on a cold surface when there is an extreme change in temperature. Condensation may cause internal damage to the unit.

- **Conditions where condensation may occur**
  - –When there is an extreme change in temperature (moving from a very hot location to a very cold location, or vice versa, or when subjected to an air conditioner or when cooled air directly impacts the unit.) When the HDD (warms during operation) is subjected to cold air, condensation may form on the inside of the HDD and may cause damage to the HDD heads, etc.
  - –When there is high humidity or a lot of steam in the room.
  - –During the rainy season.

- In the above situation, **without turning the unit on**, let the unit adjust to the room temperature and wait 2–3 hours until condensation is gone.

### ■ Cigarette smoke, etc. causes malfunction or breakdown

The unit may breakdown if cigarette smoke or bug spray/vapor, etc. gets inside the unit.

### ■ While operating

- Do not move the unit or subject to vibration or impact. (The HDD may become damaged.)
- Do not remove the AC power plug from the household AC outlet, or flip the power breaker switch.

While the unit is on, the HDD is rotating at high speed. Sound or movement due to rotation is normal.

### ■ When moving the unit

① Turn the unit off. (Wait until “BYE” disappears from the display.)
② Remove the AC power plug from the household AC outlet.
③ Move only after the unit has come to a complete stop (approx. 2 minutes) in order to avoid subjecting to vibration and shock. (Even after turning the unit off, the HDD continues operating for a short time.)

### ■ HDD recording time remaining

This unit records using a VBR (Variable bit rate) data compression system to vary recorded data segments to match video data segments which may cause differences in the displayed amount of time and space remaining for recording.
If the remaining amount of time is insufficient, erase any unwanted titles to create enough space before you start recording. (Erasing a play list will not increase the amount of time.)

### ■ When “HDD SLP (SLEEP)” appears in the display

The HDD has automatically gone into SLEEP mode in order to extend the life of the HDD.

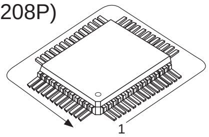
- Press [HDD] to activate.
- While in SLEEP mode play or recording may not begin right away because the HDD takes time to be re-activated.
- If there is no disc in the unit, the HDD will go into SLEEP mode after there has been no operation for 30 minutes or longer. When not using the unit, we recommend removing the disc.

### ■ Indemnity concerning recorded content

Panasonic does not accept any responsibility for damages directly or indirectly due to any type of problems that result in loss of recording or edited content (data), and does not guarantee any content if recording or editing does not work properly. Likewise, the above also applies in a case where any type of repair is made to the unit (including any other non-HDD related component).

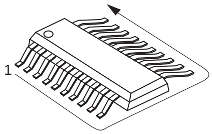
C2HBZH000002 (100P)
C2CBHG000144 (80P)
C0FBZK000007 (44P)
C1BB00000845 (80P)
C1AB00001979 (80P)
C2CBHG000140 (100P)
C2CBJG000423 (116P)
AN13310B-VB (100P)
MN85573 (336P)

MN2DS0011-H (413P)
C0HBB0000033 (64P)
MN88302 (344P)
C1ZBZ0002433 (208P)



C0FBAK000008 (20P)
C3ABPG000133 (54P)
C0CBCBD00002 (6P)
C0ABBA000073 (8P)
C0DBAZH00012 (26P)
C3EBGG000011 (8P)
C3ABRG000036 (54P)
C1DB00001110 (24P)
C3ABPJ000017 (86P)

C1AB00001920 (32P)
C0JBAZ001466 (20P)
C3ABMG000193 (50P)



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RFKBHT1500PC (48P)
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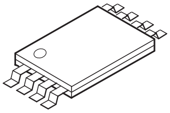

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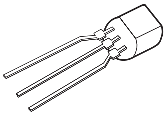

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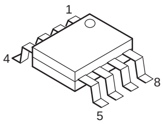

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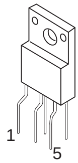

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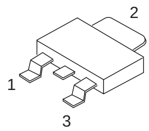

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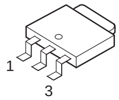

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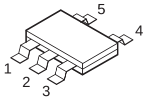

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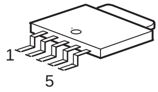

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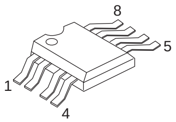

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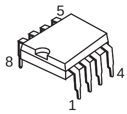

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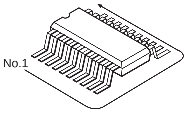

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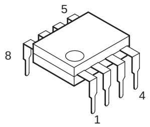

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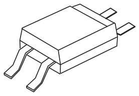

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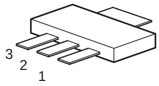

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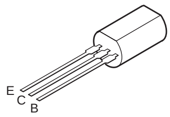

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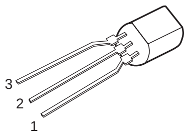

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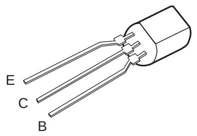

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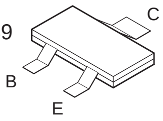

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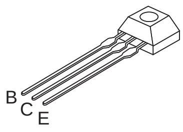

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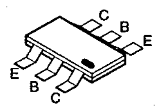

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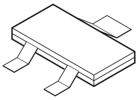

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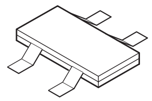

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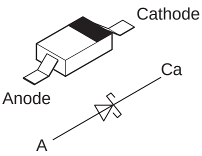
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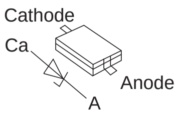
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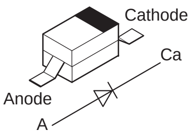
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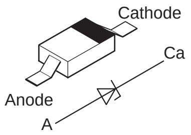
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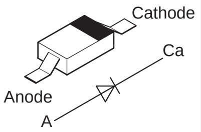
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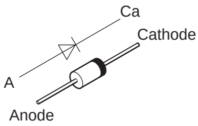
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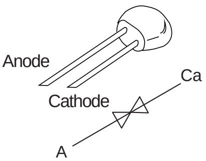
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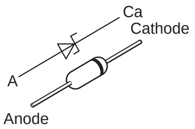
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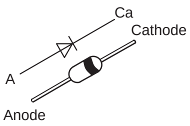
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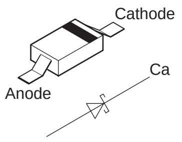
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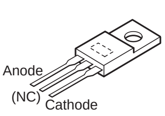
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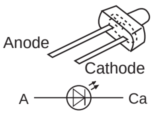
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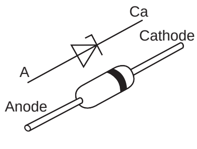
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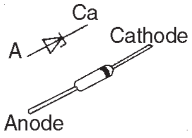
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| Ref No. | IC8001 | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MODE | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| REC | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4.7 | 2.4 | 0 | 2.3 | 5.0 | 5.0 | 0 | 0 | 5.0 | 0 | 0 | 0 |
| PLAY | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4.7 | 2.4 | 0 | 2.3 | 5.0 | 5.0 | 0 | 0 | 5.0 | 0 | 0 | 0 |
| STOP | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4.7 | 2.4 | 0 | 2.3 | 5.0 | 5.0 | 0 | 0 | 5.0 | 0 | 0 | 0 |

| Ref No. | IC8001 | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MODE | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |
| REC | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4.2 | 4.2 | 4.4 | 0 | 0 | 0 | 0 | 0 | 5.0 | 0 | 0 | 0 | 0 |
| PLAY | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4.2 | 4.2 | 4.4 | 0 | 0 | 0 | 0 | 0 | 5.0 | 0 | 0 | 0 | 0 |
| STOP | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4.2 | 4.2 | 4.4 | 0 | 0 | 0 | 0 | 0 | 5.0 | 0 | 0 | 0 | 0 |

| Ref No. | IC8001 | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MODE | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 |
| REC | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| PLAY | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| STOP | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

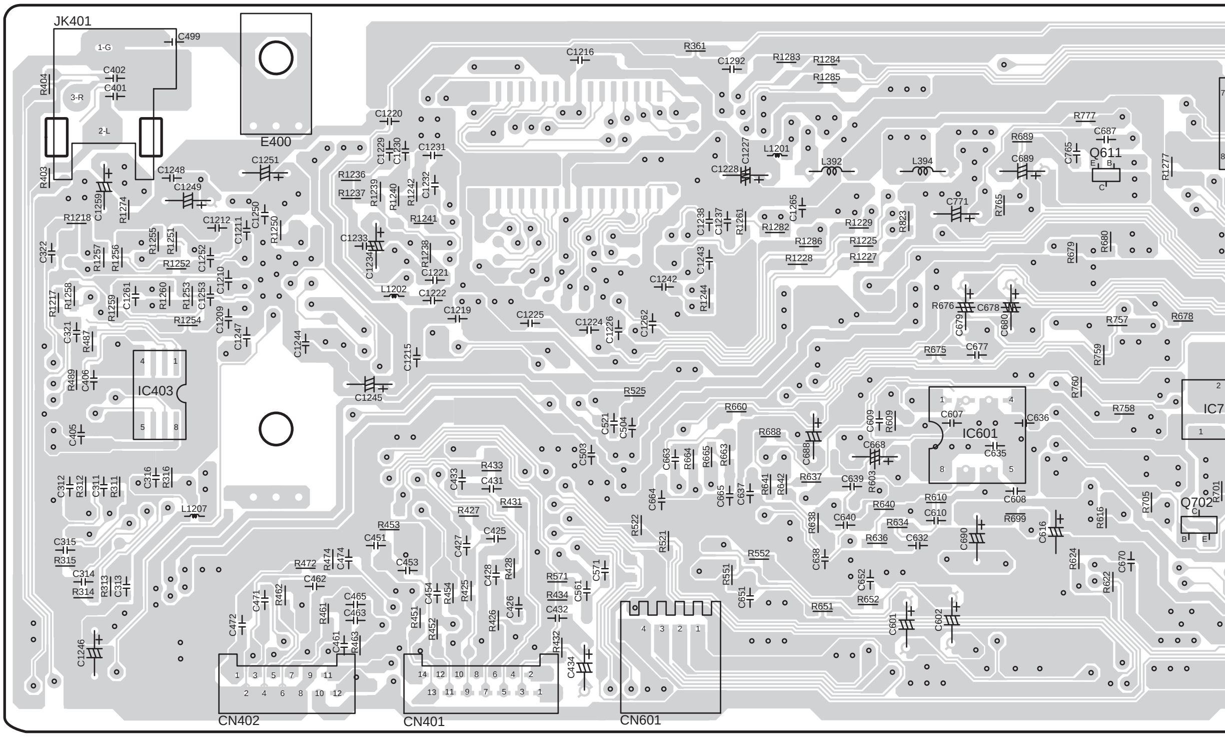
| Ref No. | IC8001 | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MODE | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 |
| REC | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5.0 | 5.0 | 0 | 0 |
| PLAY | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5.0 | 5.0 | 0 | 0 |
| STOP | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5.0 | 5.0 | 0 | 0 |

| Ref No. | IC8002 | | | | |
|---|---|---|---|---|---|
| MODE | 1 | 2 | 3 | 4 | 5 |
| REC | 4.7 | 5.0 | 0 | 0 | 1.8 |
| PLAY | 4.7 | 5.0 | 0 | 0 | 1.8 |
| STOP | 4.7 | 5.0 | 0 | 0 | 1.8 |

| Ref No. | Q8004 | | | Q8005 | | | QR8001 | | |
|---|---|---|---|---|---|---|---|---|---|
| MODE | E | C | B | E | C | B | E | C | B |
| REC | 0 | 5.0 | 0 | 0 | 0 | 0 | 4.4 | 4.4 | 4.6 |
| PLAY | 0 | 5.0 | 0 | 0 | 0 | 0 | 4.4 | 4.4 | 4.6 |
| STOP | 0 | 5.0 | 0 | 0 | 0 | 0 | 4.4 | 4.4 | 4.6 |

# C AUDIO P.C.B (REP3724A)

AUX IN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R404
R403
1-G
3-R
2-L
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(SIDE A)